

Safety Data Sheet SIT7110.2

Issue date: 09/01/2015 Revision date: 05/10/2020 Version: 2.1

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

1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : TETRAETHOXYSILANE, 99.9+%

Product code : SIT7110.2
Formula : C8H20O4Si

Synonyms : TETRAETHYLORTHOSILICATE; TEOS; SILICON TETRAETHOXIDE; TETRAETHYL

SILICATE; ETHYL SILICATE : ORGANOETHOXYSILANE

Chemical family : ORGANOETHOXYSILANE

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3

Acute toxicity (inhalation:vapour) Category 4

Serious eye damage/eye irritation, Category 2

H319

Specific target organ toxicity — Single exposure, Category 3,

H335

Respiratory tract irritation

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS07

Signal word (CLP) : Warning

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Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P240 - Ground/bond container and receiving equipment.

P264 - Wash hands thoroughly after handling.

P261 - Avoid breathing vapours. P312 - Call a doctor if you feel unwell.

2.3. Other hazards

Other hazards not contributing to the classification

: Additional ethanol may be formed by reaction with moisture and water. The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest. The US OSHA PEL (TWA) for ethanol is 1000 ppm. This product contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name : TETRAETHOXYSILANE, 99.9+%

CAS-No. : 78-10-4 EC-No. : 201-083-8 EC Index-No. : 014-005-00-0

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl silicate	(CAS-No.) 78-10-4 (EC-No.) 201-083-8 (EC Index-No.) 014-005-00-0	95 – 100	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

First-aid measures after skin contact

4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

: Wash with plenty of water/.... Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation : May cause respiratory irritation. May be harmful if inhaled.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

Chronic symptoms : On contact with water this compound liberates methanol which is known to have a chronic

effect on the central nervous system.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when

material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal. Use only non-sparking tools.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in

process area to prevent formation of vapour. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only non-sparking tools.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof

electrical equipment.

Storage conditions : Keep container tightly closed. Keep in a cool place. Store locked up.

Incompatible materials : Oxidizing agent. Moisture. Water :

Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl silicate (78-10-4)		
Austria	MAK [mg/m³]	170 mg/m³
Austria	MAK [ppm]	20 ppm
Austria	MAK Short time value [mg/m³]	340 mg/m³
Austria	MAK Short time value [ppm]	40 ppm
Belgium	Limit value [mg/m³]	86 mg/m³
Belgium	Limit value [ppm]	10 ppm

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Ethyl silicate (78-10-4)		
Bulgaria	OEL TWA (mg/m³)	100 mg/m³
France	VME [mg/m³]	85 mg/m ³
France	VME [ppm]	10 ppm
Germany	Occupational exposure limit value (mg/m³)	12 mg/m³
Germany	Occupational exposure limit value (ppm)	1.4 ppm
Greece	OEL TWA (mg/m³)	170 mg/m³
Greece	OEL TWA (ppm)	20 ppm
Greece	OEL STEL (mg/m³)	255 mg/m³
Greece	OEL STEL (ppm)	30 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA IDLH	US IDLH (ppm)	700 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	85 mg/m³
USA NIOSH	NIOSH REL (TWA) [ppm]	10 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	850 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Spain	VLA-ED (mg/m³)	87 mg/m³
Spain	VLA-ED (ppm)	10 ppm
Switzerland	KZGW (mg/m³)	85 mg/m ³
Switzerland	KZGW (ppm)	10 ppm
Switzerland	MAK (mg/m³)	85 mg/m³
Switzerland	MAK (ppm)	10 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	50 mg/m³
Denmark	Grænseværdi (8 timer) (mg/m³)	85 mg/m³
Denmark	Grænseværdi (8 timer) (ppm)	10 ppm
Finland	HTP-arvo (8h) (mg/m³)	86 mg/m³
Finland	HTP-arvo (8h) (ppm)	10 ppm
Finland	HTP-arvo (15 min)	170 mg/m³
Finland	HTP-arvo (15 min) (ppm)	20 ppm
Ireland	OEL (8 hours ref) (mg/m³)	85 mg/m³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m3)	255 mg/m³
Ireland	OEL (15 min ref) (ppm)	30 ppm
Norway	Grenseverdier (AN) (mg/m³)	85 mg/m³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	85 mg/m³
Norway	Grenseverdier (Korttidsverdi) (ppm)	10 ppm
Poland	NDS (mg/m³)	80 mg/m³
Romania	OEL TWA (mg/m³)	100 mg/m³
Romania	OEL STEL (mg/m³)	200 mg/m³
Canada (Quebec)	VEMP (mg/m³)	85 mg/m³
Canada (Quebec)	VEMP (ppm)	10 ppm
Australia	TWA (mg/m³)	85 mg/m³
Australia	TWA (ppm)	10 ppm
Portugal	OEL TWA (ppm)	10 ppm

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

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Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear liquid.

Molecular mass : 208.33 g/mol

Colour : No data available

Odour : characteristic.

Odour threshold : No data available

Refractive index : 1.3818

pH : No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : < -85 °C

Freezing point : No data available

Boiling point : $169 \, ^{\circ}\text{C}$ Flash point : $46 \, ^{\circ}\text{C}$ Auto-ignition temperature : $260 \, ^{\circ}\text{C}$

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : 200 mm Hg @ 108°C

Relative vapour density at 20 °C : 7.2

Relative density : 0.9335

% Volatiles : 100 %

Solubility : Reacts with water. Solubility parameter: 7.87.

Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available

Viscosity, kinematic : 0.8 cSt

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available

Explosive limits : 1.33 – 9.75 vol % (lower; upper)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with moist air or with water liberating ethanol.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent. Moisture. Water:

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LD50 oral rat

10.6. Hazardous decomposition products

Ethanol. Organic acid vapors. Silicon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity : Harmful if inhaled.

ED30 oral rat	3200 Hig/kg
E CLP (oral) 9280 mg/kg bodyweight	
ATE CLP (vapours)	11 mg/l/4h
Ethyl silicate (78-10-4)	
LD50 oral rat	6270 mg/kg
LDLo inhalation rat	1000 ppm/4h

0280 ma/ka

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Eye Irritation: eye-hmn, 3000 ppm: severe Irritant

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause respiratory irritation. May be harmful if inhaled.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

Chronic symptoms : On contact with water this compound liberates methanol which is known to have a chronic

effect on the central nervous system.

Reason for classification : Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Product/Packaging disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility...

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

 UN-No. (ADR)
 : 1292

 UN-No. (IMDG)
 : 1292

 UN-No. (IATA)
 : 1292

 UN-No. (ADN)
 : 1292

 UN-No. (RID)
 : 1292

14.2. UN proper shipping name

Proper Shipping Name (ADR) : TETRAETHYL SILICATE
Proper Shipping Name (IMDG) : TETRAETHYL SILICATE
Proper Shipping Name (IATA) : Tetraethyl silicate

Proper Shipping Name (ADN) : TETRAETHYL SILICATE
Proper Shipping Name (RID) : TETRAETHYL SILICATE

Transport document description (ADR) : UN 1292 TETRAETHYL SILICATE, 3, III, (D/E)
Transport document description (IMDG) : UN 1292 TETRAETHYL SILICATE, 3, III (37°C c.c.)

Transport document description (IATA) : UN 1292 Tetraethyl silicate, 3, III

Transport document description (ADN) : UN 1292 TETRAETHYL SILICATE, 3, III

Transport document description (RID) : UN 1292 TETRAETHYL SILICATE, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3

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RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T2

(ADR)

Portable tank and bulk container special : TP1

provisions (ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Special provisions for carriage - Operation : S2

(ADR)

Hazard identification number (Kemler No.) : 30

Orange plates

30 1292

Tunnel restriction code (ADR) : D/E EAC code : 3Y

- Transport by sea

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

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EmS-No. (Fire): F-EEmS-No. (Spillage): S-DStowage category (IMDG): AFlash point (IMDG): 37°C c.c.

Properties and observations (IMDG) : Colourless liquid. Flashpoint: 37°C c.c. Explosive limits: 1.3% to 23% Immiscible with water.

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 601 CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : F1
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions : T2

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages : W12
(RID)

Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

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

· TP1

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TETRAETHOXYSILANE, 99.9+% is not on the REACH Candidate List

TETRAETHOXYSILANE, 99.9+% is not on the REACH Annex XIV List

TETRAETHOXYSILANE, 99.9+% is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

TETRAETHOXYSILANE, 99.9+% is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

% Volatiles : 100 %

15.1.2. National regulations

Germany

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Regulatory reference WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No.

450)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

: The substance is not listed SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Borstvoeding NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

: Class II-1 Class for fire hazard Store unit : 5 liter

R10 <H226;H319;H332;H335>; Emergency management guidelines for the storage of Classification remarks

flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) 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, Respiratory tract irritation
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II) - Custom

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