

P332 + P313

P362

# Material Safety Data Sheet

Version: 1.0 Creation Date: May 12, 2021 Revision Date: May 12, 2023

1. PF	RODUCT AND COMPANY IDE	NTIFICATION		
1.1	Product identifiers			
	Product name	<sup>:</sup> Triethoxy(octyl)silane		
	CAS-No.	: 2943-75-1		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	: Laboratory chemicals, Synthesis of substances		
1.3	Details of the supplier of the safety data sheet			
	Company	: Kaimosi BioChem Tech Co., Ltd		
	Telephone	: +(86) 571 8719 1913		
	Fax	: +(86) 571 8756 2572		
1.4 Emergency telephone number		ber		
	Emergency Phone #	: +86-571 8719 1916 (CHEMTREC)		
2. HA	AZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	GHS Classification in accorda Skin irritation (Category 2), H31	ance with 29 CFR 1910 (OSHA HCS) 5		
	For the full text of the H-Statem	ents mentioned in this Section, see Section 16.		
2.2	GHS Label elements, including precautionary statements			
	Pictogram			
	Signal word	Warning		
	Hazard statement(s)			
	H315	Causes skin irritation.		
	Precautionary statement(s)			
	P264	Wash skin thoroughly after handling.		
	P280	Wear protective gloves.		
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
		It alkin invitation accurat Cat madical advisal attention		

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms	:	Octyltriethoxysilane Dow Corning® product Z-6341
Formula Molecular weight CAS-No. EC-No.	:	C <sub>14</sub> H <sub>32</sub> O <sub>3</sub> Si 276.49 g/mol 2943-75-1 220-941-2

#### Hazardous components

Component	Classification	Concentration
Triethoxyoctylsilane		
	Skin Irrit. 2; H315	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media Suitable extinguishing media

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

## 6. ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4

#### Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Store under inert gas. Storage class (TRGS 510): 10: Combustible liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
  - a) Appearance Form: liquid
  - colour: colourlessdourdourNo data availableOdour ThresholdNo data available
  - d) pH No data available
  - e)
    - Melting point/freezing point
  - f) Initial boiling point and boiling range

Melting point/range: -75 °C (-103 °F) at 1,013 hPa (760 mmHg) - OECD Test Guideline 102

#### 84 - 85 °C (183 - 185 °F) at 0.7 hPa (0.5 mmHg) - lit.

g)			
0,	Flash point	100 °C (212 °F) - closed cup	
h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	No data available	
j)	Upper/lower flammability or explosive limits		
No	data available		
k)			
,	Vapour pressure	No data available	
I)	Vapour density	No data available	
m)	Relative density	0.88 g/cm3 at 25 °C (77 °F)	
n)	Water solubility	0.13 g/l at 22.8 °C (73.0 °F) - OECD Test Guideline 105 - slightly soluble	
o)			

Partition coefficient: n- octanol/water

- p) Auto-ignition temperature
- q) Decomposition temperature

#### No data available

225 °C (437 °F) at 1,008.9 - 1,020.8 hPa (756.7 - 765.7 mmHg)

No data available

r)		
,	Viscosity	1.68 mm2/s at 20 °C (68 °F) - OECD Test Guideline 114 -
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

#### 9.2 Other safety information

No data available

#### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### **10.3 Possibility of hazardous reactions** No data available

#### 10.4 Conditions to avoid

Avoid moisture.

#### 10.5

#### Incompatible materials

Strong oxidizing agentsacids, Bases, Oxidizing agents, Material generates ethanol on contact with water or moisture

#### **10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, silicon oxides Other decomposition products - No data available In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - >= 5,110 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 22 ppm (OECD Test Guideline 403)

LD50 Dermal - Rabbit - male - 6,730 mg/kg (OECD Test Guideline 402)

LD50 Dermal - Rabbit - female - > 8,000 mg/kg (OECD Test Guideline 402)

No data available

#### Skin corrosion/irritation

Skin - Rabbit Result: Irritating to skin. (OECD Test Guideline 404)

#### Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation

(OECD Test Guideline 405)

## Respiratory or skin sensitisation

Maximisation Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406)

## Germ cell mutagenicity

reverse mutation assay Salmonella typhimurium Result: negative

Chromosome aberration test in vitro Chinese hamster ovary cells Result: negative

In vitro mammalian cell gene mutation test mouse lymphoma cells

#### Result: negative

#### Carcinogenicity

No data available

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

Repeated dose toxicity RTECS: VV6695500

Rat - male and female - NOAEL : 300 mg/kg - OECD Test Guideline 422

Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

#### **12. ECOLOGICAL INFORMATION**

Toxicity to fish

#### 12.1 Toxicity

flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.055 mg/l -96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

flow-through test EC50 - Daphnia magna (Water flea) - > 0.049 mg/l - 48 h (OECD Test Guideline 202)

	Toxicity to algae s algae) - > 0.13 mg/l - 7 (OECD Test Guideline	
Toxicity to bacteria	EC50 - activated sludg (OECD Test Guideline	

#### 12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d Result: 31.5 % - Not readily biodegradable. (OECD Test Guideline 301D)

## 12.3 Bioaccumulative potential

No data available

#### **12.4 Mobility in soil** No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

## **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Triethoxyoctylsilane

CAS-No. 2943-75-1

Revision Date

Triethoxyoctylsilane

#### New Jersey Right To Know Components

Triethoxyoctylsilane

California Prop. 65 Components

CAS-No. 2943-75-1

CAS-No. 2943-75-1

**Revision Date** 

**Revision Date** 

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

H315Causes skin irritation.Skin Irrit.Skin irritation

Further information

Kaimosi Bio Chem Tech Co., Ltd granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Kaimosi Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.kaimosi.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.