
1. Chemical Product and Company Identification

Product name	Elite Sil CN104E
Product description	Silicone Emulsion
Company	Organic Wealth (Thailand) Co.,Ltd. 212/61 Moo 3 Prekasamai, Muangsamuthprakarn, Samuthprakarn 10280 Thailand. Tel/Fax :+66 (0) 2-183-8709
Emergency call	+66(0)21838709

2. Composition / Information on ingredients

Silicone for surface treatment

Substance	CAS NO.	Nr.Wt%
Triethoxyoctylsilane	2943-75-1	20-30
Silicone oil	63148-62-9	10-20

3. Hazards identification

CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and Its amendments.

Skin

Corrosion/Irritation Category 2

Serious Eye

Damage/Irritation Category 2A

Hazard statements Causes skin irritation
Causes serious eye irritation

Precautionary statements:

Prevention 1. Wash hands thoroughly after handling.
2. Wear protective gloves/protective clothing/eye protection/face protection.

Response 1. IF ON SKIN: Wash with plenty of water.
2. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

- lenses, if present and easy to do. Continue rinsing.
3. If skin irritation occurs: Get medical advice/attention.
 4. If eye irritation persists: Get medical advice/attention.
 5. Take off contaminated clothing and wash it before reuse.

Storage	Not applicable
Disposal	Not applicable
Supplemental Hazard information (EU)	Not applicable
Other hazards	Not applicable

4. First aid measures

General information	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

1. Treat symptomatically.
2. Symptoms may be delayed.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Small Fire: Dry chemical, CO ₂ , water spray or alcohol-resistant foam; Large Fire: Water spray, fog or alcohol-resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter or spread fire.

Specific hazards arising

from the substance or mixture Not applicable

Advice for firefighters

1. As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2. Fight fire from a safe distance, with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6.Measures in case of accidents

Personal precautions

1. Avoid breathing vapours and contacting with skin and eye.
2. Beware of vapours accumulating to form explosive concentrations.
3. Vapours can accumulate in low areas.
4. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
6. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
7. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental precautions

1. Prevent further leakage or spillage if safe to do so.
2. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7.Handling and storag

Precautions for handling

Protective measures:

1. Handling is performed in a well ventilated place.
2. Wear suitable protective equipment.
3. Avoid contact with skin and eyes.

Measures to prevent fire:

1. Keep away from heat/sparks/open flames/ hot surfaces.
2. To prevent fire caused by electrostatic discharge steam, equipment on all metal

parts should be grounded.

3. Use explosion proof equipment.

4. Keep away from heat/sparks/open flames/ hot surfaces.

Measures to prevent aerosol

and dust generation: Not applicable.

Advice on general occupational

hygiene: 1. Wash hands and face after using of the substances.

2. Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1. Keep containers tightly closed .

2. Keep containers in a dry, cool and well-ventilated place.

3. Keep away from heat/sparks/open flames/hot surfaces.

4. Store away from incompatible materials and foodstuff containers.

Specific end uses

1. In addition to use mentioned in the first parts, unforeseen other specific end uses.

8.Exposure control / Personal protection equipment

Occupational Exposure

limit values Silicone oil (CAS#63148-62-9): Limit value - Eight hours: 60 mg/m³; Limit value - Short term (15 minutes average value): 80 mg/m³ (Romania)

Biological limit values No information available

Monitoring methods

1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2. GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard)

Derived No Effect Level (DNEL)

Triethoxyoctylsilane

For workers

Acute effects (local)	Acute effects (systemic)	Long-term systemic effects	Long-term local effects
No data available	No data available	17.6 mg/m ³ (Inhalation) 1.25 mg/kg bw/day (Dermal)	No data available

For general population

Acute effects (local)	Acute effects (systemic)	Long-term systemic effects	Long-term local effects
No data available	No data available	4.3 mg/m ³ (Inhalation) 1.25 mg/kg bw/day (Oral) 1.25 mg/kg bw/day (Dermal)	No data available

Predicted**No Effect Concentration (PNEC)** No information available**Engineering controls**

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exit and necessary risk-elimination area.

Eye protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand protection

Wear protective gloves such as butyl rubber, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and body protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

9.Physical and chemical properties

Appearance	: Milky white liquid
Active content	: 40%
Initial boiling point and boiling range (°C)	: 100
Odor	: Slight odor
Relative density (Water=1)	: 0.800-1.000
Vapors pressure	: No information available
Vapors density	: No information available
Viscosity (mm ² /s)	: No information available
Melting point	: No information available
pH	: 5.5-9.0

Solubility in water	: No information available
Flash point	: No information available
Flammability (explosive) limit	: No information available
Auto ignition temperature	: No information available

10. Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	
Hazardous decomposition products	No information available
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicolog

Acute and reactivity

Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (inhalation)	No data available

Triethoxyoctylsilane

LD50(Oral, Rat):	≥ 5110 mg/kg bw
LD50(Dermal, Rabbit):	6730 mg/kg bw male
LC50(Inhalation, Rat):	Not available

Carcinogenicity

Triethoxyoctylsilane	Not listed in IARC and NTP
Silicone oil	Not listed in IARC and NTP

Others

Silicone Emulsion

Skin corrosion/irritation	Causes skin irritation (Category 2)
Serious eye damage/irritation	Causes serious eye irritation(Category 2A)
Skin sensitization	No information available
Respiratory sensitization	No information available
Reproductive toxicity	No information available
STOT-single exposure	No information available

STOT-repeated exposure	No information available
Aspiration hazard	No information available
Germ cell mutagenicity	No information available
Reproductive toxicity (additional)	No information available

Information on other hazards

Endocrine disrupting properties	The mixture does not contain endocrine disruptor.
Other information	Not applicable

12. Ecological information

Acute aquatic toxicity	No information available
Triethoxyoctylsilane	
LC50(96h, Fish):	> 0.055 mg/L
EC50(48h, Crustacea):	> 0.049 mg/L
EC50(72h, Algae/aquatic plants):	> 0.13 mg/L
Chronic aquatic toxicity	No information available

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Triethoxyoctylsilane	High	High

Bioaccumulative potential

Component	Bioaccumulative potential	comments
Triethoxyoctylsilane	Medium	LogKOW=4.2394

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Triethoxyoctylsilane	Low	187100

Results of PBT and vPvB assessment

Triethoxyoctylsilane not PBT/vPvB

Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

Other adverse effects: Not available.

Additional information Not available.

13. Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible

14. Transport information

Label and mark	: Not applicable
IMDG-CODE	: Not regulated for transport of dangerous goods
ICAO/IATA-DGR	: Not regulated for transport of dangerous goods
UN-ADR	: Not regulated for transport of dangerous goods

15. Regulatory information

International chemical inventory

Triethoxyoctylsilane There are listed in EINECS, TSCA, DSL, IECSC, NZIoC, PICCS, KECI, and AICS and ENCS

Silicone oil There are listed in TSCA, DSL, IECSC, NZIoC, PICCS, KECI, and AICS and ENCS

【EINECS】	European Inventory of Existing Commercial Chemical Substances
【TSCA】	United States Toxic Substances Control Act Inventory
【DSL】	Canadian Domestic Substances List
【IECSC】	China Inventory of Existing Chemical Substances
【NZIoC】	New Zealand Inventory of Chemicals
【PICCS】	Philippines Inventory of Chemicals and Chemical Substances
【KECI】	Existing and Evaluated Chemical Substances
【AICS】	Australia Inventory of Chemical Substances
【ENCS】	Existing And New Chemical Substances

European chemical inventory

Triethoxyoctylsilane There are listed in D and E and ENCS

Silicone oil There are listed in D

【A】	Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
【B】	Substances requiring authorisation under EU REACH regulation
【C】	Substances restricted under EU REACH
【D】	Pre-registered substances under EU REACH
【E】	Registered substances under EU REACH
【F】	Substance Evaluation – CoRAP under EU REACH
【G】	List of priority substances under EU water policy (Directive 2455/2001/EC)

16. Other information

These data are based on our best knowledge to date. However they do not imply any guarantee on the properties of the product. This safety data sheet replaces all previous issues

