

Safety Data Sheet acc. to OSHA HCS

Print Date 17/02/2019

Revision Date 07/02/2019

- Product Identifier
 - Trade Name: **810088**
 - Application of the Substance or Mixture: *Silicone Fluid*
- Details of the Supplier of the Safety Data Sheet (SDS)
 - Manufacturer or Supplier:
 - KitPackers
 - Room 9, 11 Floor, Chuangxin Building Block 1, No. 1, Technology Road, Technology Chuangxin Park, West of Dayabay, Huizhou City, Guangdong, P.R. China (86 752) 533798
 - Information Department: Product Safety Department: msds@resinlab.com
 - Emergency Telephone Number:
 - North America - Chemtec: 1-800-424-9300 (24 hours)
 - International - Chemtec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

- Hazard Classification
 - Eye Dam. 2B H320 Causes eye irritation.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
- Label Elements
 - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
 - Pictogram(s)



GHS07

- Signal Word *Warning*
- Hazard-determining Component(s)
 - Polyether-CAS number not assigned.
- Hazard statements
 - H320 Causes eye irritation.
 - H317 May cause an allergic skin reaction.
- Precautionary statements
 - Avoid breathing dust/fume/gas/mist/vapors/spray
 - Wear protective gloves.
 - Wash thoroughly after handling.
 - Contaminated work clothing must not be allowed out of the workplace.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Wash contaminated clothing before reuse.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.
 - IF ON SKIN: Wash with plenty of water.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazard Rating System
 - NFPA System
 - NFPA Ratings (scale 0 - 4)



NFPA special hazards (water reactivity and oxidizing property): *None*

- HMIS System
 - HMIS Ratings (scale 0 - 4)



- Other hazards
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical Characterization: *Mixtures*

- Composition/Information on Ingredients

	Polyether-CAS number not assigned.	Skin Sens. 1, H317 Eye Dam. 2B, H320	80-90%
CAS: 13822-56-5 EINECS: 237-511-5	3-(trimethoxysilyl)propylamine	Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	5-10%
CAS: 870-08-6 EINECS: 212-791-1 RTECS: WH 7620000	dioctyltin oxide		1-5%

- Classification System:

The Classifications were based on the Toxicological and Ecological Data of the substances/mixtures in the Section 11 and 12.

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Additional Information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

Description of First Aid Measures

General Information

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

After Inhalation

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

After Skin Contact

Gently wash contaminated skin with water. Remove all contaminated clothing and wash before reuse. Seek medical treatment in case of complaints.

After Eye Contact

Rinse opened eyes under running water for at least 15 minutes. Remove contact lenses if present and easy to do so; continue rinsing. Seek medical advice.

After Swallowing

If victim is unconscious; never give anything by mouth. If victim is conscious; rinse out mouth and give victim small amounts of water. Get medical attention

After Exposure Seek medical treatment in case of complaints.

Information for Doctor Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.

Indication of any Immediate Medical Attention and Special Treatment Needed

skin tests
Check section 11 Toxicological Information for further relevant information.

Additional Information

For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

5 Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Agent(s)

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

- Alcohol resistant foam.
- Carbon dioxide or fire extinguishing powder.
- Carbon dioxide (CO₂).
- Water spray or water fog.

Unsuitable Extinguishing Agent(s) No relevant information.

Firefighting Procedures

Isolate fire and deny unnecessary entry. Eliminate all ignition sources if safe to do so. Do not extinguish fire unless flow can be stopped. Burning liquids may be moved by flushing with water; protect personnel and minimize property damage. Fight fire from protected location or safe distance. Contain fire water runoff if possible to prevent environmental pollution.

Special Hazards Arising in Fire

Will not burn unless preheated. In case of fire, following can be released:
carbon dioxide (CO₂) and carbon monoxide (CO)

Advice for Firefighters

If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).

As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

Additional Information Ensure adequate and functional fire fighting facilities equipped in working area at all times.

6 Accidental release measures

Personal Precautions

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use. Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

Environmental Precautions No further relevant information.

Cleaning Up Methods

Ensure adequate ventilation. Eliminate all ignition sources. Keep unauthorized personnel away. For large spills:

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Shut off source of leak if safe to do so.
Dike and contain.
Remove with vacuum trucks or pump to storage/salvage vessels.
Absorb residues with liquid-binding materials.
For small spills:
Ventilate and wash area after clean-up is complete.
Collect spills in suitable and properly labeled containers.
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.
Dispose contaminated chemicals as waste according to Section 13.

- **Additional Information** No further relevant information.
- **Protective Action Criteria for Chemicals**

• PAC-1:		
13822-56-5	3-(trimethoxysilyl)propylamine	30 mg/m3
• PAC-2:		
13822-56-5	3-(trimethoxysilyl)propylamine	330 mg/m3
• PAC-3:		
13822-56-5	3-(trimethoxysilyl)propylamine	2,000 mg/m3

7 Handling and storage

- **Handling**
 - **Precautions for Safe Handling**
Keep away from incompatible material(s).
Avoid any release into the environment.
For industrial or professional use only
Observe all the personal protection requirements in Section 8.
 - **Information about Protection Against Explosions and Fires**
Will not burn unless preheated.
Keep away from heat, sparks, open flame and other ignition sources during handling.
- **Storage**
 - **Requirements to be Met by Storerooms and Receptacles**
Store in a well-ventilated place; provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.
 - **Information about Storage in One Common Storage Facility**
Store away from incompatible material(s).
Store away from foodstuffs.
Avoid release to the environment.
- **Additional Information** No further relevant information.

8 Exposure controls/personal protection

- **Engineering Measures or Controls**
 - **Exposure Limit Values that Require Monitoring at the Workplace**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

870-08-6 dioctyltin oxide	
PEL	Long-term value: 0.1 mg/m ³ as Sn
REL	Long-term value: 0.1 mg/m ³ as Sn, Skin
TLV	Short-term value: 0.2 mg/m ³ Long-term value: 0.1 mg/m ³ as Sn; Skin

- **Other Engineering Measures or Controls**
Ventilation rates should be matched to conditions.
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- **Personal Protective**
 - **General Protective and Hygienic Measures**
Do not eat, drink or smoke during work.
Avoid contact with eyes.
Clean hands and exposed skin thoroughly after work and before breaks.
 - **Personal Protective Equipment (PPE)**
 - **Breathing Equipment**
Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.
Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator.
Observe OSHA regulations (29CFR 1910.134) for respirator use.
 - **Hand Protection**
Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.
Suggested glove type(s):
Nitrile Gloves
Butyl Rubber Gloves
 - **Eye Protection** safety glasses with side shields and or face shield.
 - **Body Protection** Appropriate chemical resistant clothing.

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Additional Information

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

Information on Basic Physical and Chemical Properties

Appearance:

- **Form:** Viscous
- **Color:** Opaque
- **Odor:** Mild

· **Odor Threshold:** Not determined.

· **PH-Value:** Not determined.

Change in Condition:

- **Melting Point:** Not determined.
- **Boiling Point:** Not determined.
- **Flash Point:** >93 °C (>199 °F)

· **Decomposition Temperature:** Not determined.

· **Auto-ignition Temperature:** Not determined.

· **Flammability:** Not determined.

· **Explosion:** Not determined.

Explosion Limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapor Pressure:** Not determined.

· **Vapor Density:** not determined

· **Density at 20 °C (68 °F):** 1.08 g/cm³ (9.013 lbs/gal)

Solubility in or Miscibility with

- **Water:** Not miscible or difficult to mix.

Viscosity:

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

· **Additional Information** No further relevant information.

10 Stability and reactivity

· **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.

· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.

Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).

Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

· **Possibility of Other Hazardous Reaction(s)** No further relevant information available.

Incompatible Material(s)

- Oxidizing agents
- Free radical producing initiators.
- Peroxides
- Bases (Alkalis)

Hazardous Decomposition Product(s)

Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

· **Hazardous Polymerization Product(s)** No relevant information.

· **Additional Information** No further relevant information.

11 Toxicological information

Acute Toxicity

Oral

870-08-6 dioctyltin oxide

Oral LD50 2500 mg/kg (rat)

· **Potential Health Effect(s):** See acute inhalative effect(s) for further information

Dermal

· **Potential Health Effect(s):**

No further relevant information available; classification is not possible.

See acute inhalative effect(s) for further information.

Inhalative

· **Potential Health Effect(s):**

While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):

Skin Corrosion or Irritation

· **Potential Health Effect(s):** No further relevant information; classification is not possible.

Eye Serious Damage or Irritation

· **Potential Health Effect(s):**

Causes eye irritation.

In contact with eye, may cause:

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- redness and pain
- unlikely to cause corneal injuries
- **Respiratory or Skin Sensitization**
- **Potential Health Effect(s):**
- May cause an allergic skin reaction.
- No relevant information for respiratory sensitization; classification is not possible.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Germ Cell Mutagenicity**
- **Potential Health Effect(s):** No further relevant information; classification is not possible.
- **Carcinogenicity**
- **Potential Health Effect(s):** Not a known Carcinogen.
- **Specific Target Organ Toxicity - Single Exposure**
- **Potential Health Effect(s):** No further relevant information; classification is not possible.
- **Aspiration Hazard**
- **Potential Health Effect(s):** No relevant information; classification is not possible.
- **Additional Information** No further relevant information.


12 Ecological information

- **Aquatic Environmental Toxicity Assessment:** No further relevant information; classification is not possible.
- **Degradability and Bioaccumulation Assessment:** Non-rapidly degradable, and low bioaccumulative.
- **Additional Information** No further relevant information.

13 Disposal considerations

- **Hazardous Waste List**
- **Description:** It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.
- **Waste Treatment Recommendation:**
- Generation of waste should be avoided or minimized wherever possible.
- Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
- Dispose of contents/containers in accordance with local, regional, national, and international regulations.
- **Unused and Uncontaminated Packagings**
- **Recommendation** Dispose of according to your local waste regulations.

14 Transport information

- **UN-Number** Not regulated for transport; not applicable.
- **DOT** UN3082
- **ADR, ADN, IMDG, IATA** Not Regulated
- **UN Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s. (Polyether)
- **DOT** Not Regulated
- **ADN, IMDG, IATA**
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9
- **ADR, ADN, IMDG, IATA**
- **Class** Not Regulated
- **Packing group**
- **DOT** III
- **ADR, IMDG, IATA** Not Regulated
- **Environmental Hazards:** Not applicable.
- **Special Precautions:** Not applicable.
- **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Not Regulated

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15 Regulatory information

USA Regulation Lists

SARA (Superfund Amendments and Reauthorization Act of 1986)

Section 302 (Extremely Hazardous Substances)

None of the ingredients is listed.

Section 313 (Toxics Release Inventory (TRI) reporting)

None of the ingredients is listed.

Section 311/312 (Hazardous Chemical Inventory Reporting)

None of the ingredients is listed.

Hazard Abbreviations for SARA 311/312

- A - Acute Health Hazard
- C - Chronic Health Hazard
- F - Fire Hazard
- R - Reactive Hazard
- S - Sudden Release of Pressure Hazard

TSCA (Toxic Substances Control Act)

13822-56-5 3-(trimethoxysilyl)propylamine

870-08-6 dioctyltin oxide

Proposition 65

Chemicals Known to Cause Cancer

None of the ingredients is listed.

Chemicals Known to Cause Reproductive Toxicity for Females

None of the ingredients is listed.

Chemicals Known to Cause Reproductive Toxicity for Males

None of the ingredients is listed.

Chemicals Known to Cause Developmental Toxicity

None of the ingredients is listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value Established by ACGIH)

870-08-6 dioctyltin oxide

A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

International Regulation Lists

Canadian Domestic Substance Listings:

13822-56-5 3-(trimethoxysilyl)propylamine

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

Chinese Chemical Inventory of Existing Chemical Substances:

13822-56-5 3-(trimethoxysilyl)propylamine

870-08-6 dioctyltin oxide

Japanese Existing and New Chemical Substance List:

13822-56-5 3-(trimethoxysilyl)propylamine

Korean Existing Chemical Inventory:

13822-56-5 3-(trimethoxysilyl)propylamine

870-08-6 dioctyltin oxide

European Pre-registered substances:

13822-56-5 3-(trimethoxysilyl)propylamine

870-08-6 dioctyltin oxide

REACH - Substances of Very High Concern (SVHC) List:

None of the ingredients is listed.

Restriction of Hazardous Substances Directive (RoHS) list:

None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department Issuing (M)SDS: Product Safety Department

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· **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists
ACToR: US EPA Aggregated Computational Toxicology Resource
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
BCF: Bioconcentration Factor
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DOT: US Department of Transportation
DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
ICSC: International Chemical Safety Cards
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)
Koc: Partition coefficient, soil Organic Carbon to water
LC50/LD50: Lethal Concentration/Dose, 50 percent
N/a: Not available or Not applicable
NFPA: US National Fire Protection Association
NIOSH: US National Institute of Occupational Safety and Health
NITE: National Institute of Technology and Evaluation, Japan
OECD: Organisation for Economic Co-operation and Development
OSHA: US Occupational Safety and Health Administration
P: Marine Pollutant
RCRA: Resource Conservation and Recovery Act (USA)
REACH: EU Registry, Evaluation and Authorisation of Chemicals
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SARA: US Superfund Amendments and Reauthorization Act
SIDS: OECD existing chemicals Screening Information Data Sets
SVHC: EU ECHA Substance of Very High Concern
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)
TOXLINE: US NLM bibliographic database search system
TSCA: US Toxic Substance Control Act

· **Date of preparation / last revision** 11/04/2016 / -