Safety Data Sheet

Product name: Silicone oil CAS No.: 63148-62-9

Prepared in accordance with GB/T 16483, GB/T 17519

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

>Product identifier

- Product name: Silicone oil
- CBnumber: CB7696471
- CAS: 63148-62-9
- EINECS Number: 613-156-5
- Synonyms: pdms,SILICONE OIL

>Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified uses: For R&D use only. Not for medicinal, household or other use.
- Uses advised against: none

>Company Identification

- Company: Linyi Tuohui New Materials Co., Ltd.
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- Emergency telephone: +86 176 6460 5089

SECTION 2: Hazards identification

>GHS Label elements, including precautionary statements

- Symbol(GHS) 
- Signal wordDanger

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsing.
P331 Do NOT induce vomiting.

Hazard statements

H225 Highly Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H340 May cause genetic defects
H350 May cause cancer
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

>Substance

- Product name: Silicone oil
- Synonyms: pdms,SILICONE OIL
- CAS: 63148-62-9
- EC number: 613-156-5
- MF: C6H18OSi2
- MW: 162.38

SECTION 4: First aid measures

>4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

>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) and/or in section 11

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

No data available

SECTION 5: Firefighting measures

>5.1 Extinguishing media

Suitable extinguishing media

Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

>5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

>5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

>5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

>NFPA 704

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SECTION 6: Accidental release measures

>6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.
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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb).
Dispose of properly. Clean up affected area.

>6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

>7.1 Precautions for safe handling

For precautions see section 2.2.

>7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Storage stability

Recommended storage temperature 2 - 8 °C

Storage class

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

SECTION 8: Exposure controls/personal protection

>8.1 Control parameters

Ingredients with workplace control parameters

>8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

not required

Respiratory protection

Not required; except in case of aerosol formation.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

>Information on basic physicochemical properties

- a) Physical stateclear, liquid
- b) Colorcolorless
- c) Odorodorless
- d) Melting point/freezing pointMelting point: -50 °C
- e) Initial boiling point and boiling range35 °C at 1.013 hPa
- f) Flammability (solid, gas)No data available
- g) Upper/lower flammability or explosive limitsNo data available
- h) Flash point321 °C - closed cup
- i) Autoignition temperatureNo data available
- j) Decomposition temperatureNo data available
- k) pHNo data available
- l) ViscosityViscosity, kinematic: No data available
  Viscosity, dynamic: No data available
- m) Water solubilityPRACTICALLY INSOLUBLE
- n) Partition coefficient n-octanol/waterNo data available
- o) Vapor pressure7 hPa at 20 °C
- p) Density0,76 - 0,97 g/cm3

- Relative density0.963 g/mL at 25 °C
- q) Relative vapor density>1 (vs air)
- r) Particle characteristicsNo data available
- s) Explosive propertiesNo data available
- t) Oxidizing propertiesnone
- SolubilityChloroform (Slightly), Ethyl Acetate (Sparingly), Toluene (Sparingly)
- Dielectric constant2.7 （Ambient）

>9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

>10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

>10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

>10.3 Possibility of hazardous reactions

No data available

>10.4 Conditions to avoid

Strong heating.

>10.5 Incompatible materials

>10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

>11.1 Information on toxicological effects

Acute toxicity

Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation

Classified based on available data. For more details, see section 2

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

>11.2 Additional Information

Endocrine disrupting properties

Product:
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
RTECS: TQ2690000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Propertys which must be anticipated by analogy:

SECTION 12: Ecological information

>12.1 Toxicity

No data available

>12.2 Persistence and degradability

>12.3 Bioaccumulative potential

>12.4 Mobility in soil

>12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

>12.6 Endocrine disrupting properties

Product:
Assessment : The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

>12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

>13.1 Waste treatment methods

No data available

SECTION 14: Transport information

>14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

>14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

>14.3 Transport hazard class(es)

>14.4 Packaging group

>14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

>14.6 Special precautions for user

No data available

Further information: Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

>15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

>Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - Agreement concerning the International Carriage ofDangerous Goods by Road

AIIC - Australian Inventory of Industrial Chemicals

ASTM -American Society for the Testing of Materials

bw - Body weight

CMR - Carcinogen,Mutagen or Reproductive Toxicant

DIN - Standard of the German Institute forStandardisation

DSL - Domestic Substances List (Canada)

ECx - Concentration associated with x% response

ELx - Loading rate associated with x% response

EmS -Emergency Schedule

ENCS - Existing and New Chemical Substances (Japan)

ErCx -Concentration associated with x% growth rate response

GHS - Globally HarmonizedSystem

GLP - Good Laboratory Practice

IARC - International Agency for Research onCancer

IATA - International Air Transport Association

IBC - International Code for theConstruction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 - Half maximal inhibitory concentration

ICAO - International Civil Aviation Organization

IECSC - Inventory of Existing Chemical Substances in China

IMDG - InternationalMaritime Dangerous Goods

IMO - International Maritime Organization

ISHL - IndustrialSafety and Health Law (Japan)

ISO - International Organisation for Standardization

KECI - Korea Existing Chemicals Inventory

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

MARPOL - International Convention for the Prevention of Pollution from Ships

n.o.s. -Not Otherwise Specified

NO(A)EC - No Observed (Adverse) Effect Concentration

NO(A)EL - No Observed (Adverse) Effect Level
NOELR - No Observable Effect LoadingRate
NZIoC - New Zealand Inventory of Chemicals
OECD - Organization for EconomicCo-operation and Development
OPPTS - Office of Chemical Safety and PollutionPrevention
PBT - Persistent, Bioaccumulative and Toxic substance
PICCS - PhilippinesInventory of Chemicals and Chemical Substances
(Q)SAR - (Quantitative) StructureActivity Relationship
REACH - Regulation (EC) No 1907/2006 of the EuropeanParliament and of the Council concerning the Registration, Evaluation, Authorisation andRestriction of Chemicals
RID - Regulations concerning the International Carriage ofDangerous Goods by Rail
SADT - Self-Accelerating Decomposition Temperature
SDS -Safety Data Sheet
TCSI - Taiwan Chemical Substance Inventory
TECI - ThailandExisting Chemicals Inventory
TSCA - Toxic Substances Control Act (United States)
UN - United Nations
UNRTDG - United Nations Recommendations on the Transport ofDangerous Goods
vPvB - Very Persistent and Very Bioaccumulative