1. Identification of the Substance/Mixture and of the Company

Product Code: SiSiB® PC9100
Chemical Name: Octamethylcyclotetrasiloxane
Manufacturer / Supplier: Power Chemical Corporation.
Post Address: #117, Guanghua Road, Nanjing 210007, P.R. China
Emergency Telephone Number: +86-25-8468-0091
Use of Substance: For Industrial Use
Alternative Names: D4

2. Hazardous Identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Reproductive toxicity (Category 2)
Chronic aquatic toxicity (Category 4)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Possible risk of impaired fertility. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram
Signal word: Warning
Hazard statement(s)
H413 May cause long lasting harmful effects to aquatic life.
H361f Suspected of damaging fertility.
Precautionary statement(s)
P281 Use personal protective equipment as required.
Supplemental Hazard Statements

Hazard symbol(s)
R-phrase(s)
R53 May cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
S-phrase(s)
S36/37 Wear suitable protective clothing and gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards – none

3. Composition/Information on Ingredients

3.1 Substances
Formula : C8H24O4Si4
Molecular Weight : 296.62 g/mol
Component Concentration
Octamethylcyclotetrasiloxane
CAS-No. 556-67-2
EC-No. 209-136-7

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.

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
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. 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
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed
no data available

5. Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, silicon oxides

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses
no data available
8. Exposure Controls and Personal Protection

8.1 Control parameters
Components with 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
Face shield and safety glasses 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.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
impervious clothing, Flame retardant antistatic protective 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 multi-purpose 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).

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
a) Appearance Form: liquid
   Colour: colourless
b) Odour no data available
c) Odour Threshold no data available
d) pH no data available
e) Melting/freezing point Melting point/range: 17 - 18 °C - lit.
f) Initial boiling point and boiling range: 175 - 176 °C - lit.
g) Flash point 56 °C - 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
l) Vapour density 10,24 - (Air = 1.0)
m) Relative density 0,956 g/cm3 at 25 °C
n) Water solubility no data available
o) Partition coefficient: noctanol/water
   no data available
p) Autoignition temperature
   no data available
q) Decomposition temperature
   no data available
r) Viscosity no data available
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
   no data available

10.3 Possibility of hazardous reactions
   no data available

10.4 Conditions to avoid
   Heat, flames and sparks.

10.5 Incompatible materials
   Strong oxidizing agents, acids, Bases

10.6 Hazardous decomposition products
   Other decomposition products - no data available

11. Toxicological Information
11.1 Information on toxicological effects

**Acute toxicity**
LD₅₀ Oral - rat - > 2.000 mg/kg
LC₅₀ Inhalation - rat - 4 h - 36.000 mg/m³
Remarks: Behavioral: Excitement. Lungs, Thorax, or Respiration: Dyspnea. Skin and Appendages: Other:
Hair.
LD₅₀ Dermal - rabbit - > 4.640 mg/kg

**Skin corrosion/irritation**
Skin - rabbit - Mild skin irritation - 24 h

**Serious eye damage/eye irritation**
Eyes - rabbit - Mild eye irritation - 24 h

**Respiratory or skin sensitization**
no data available

**Germ cell mutagenicity**
no data available

**Carcinogenicity**
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.

**Reproductive toxicity**
Suspected human reproductive toxicant
Reproductive toxicity - rat - Inhalation
Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

**Specific target organ toxicity - single exposure**
no data available

**Specific target organ toxicity - repeated exposure**
no data available

**Aspiration hazard**
no data available

**Potential health effects**
**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.
**Ingestion** May be harmful if swallowed.
**Skin** May be harmful if absorbed through skin. May cause skin irritation.
**Eyes** Causes eye irritation.

**Signs and Symptoms of Exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have
not been thoroughly investigated.

Additional Information
RTECS: GZ4397000

12. Ecological Effects

12.1 Toxicity
Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 200,0 mg/l - 96,0 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential
Bioaccumulation Pimephales promelas (fathead minnow) - -0,160 μg/l
Bioconcentration factor (BCF): 12.400
Pimephales promelas (fathead minnow) - 28 d -0,160 μg/l
Bioconcentration factor (BCF): 14.261

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
no data available

12.6 Other adverse effects

13. Disposal Considerations

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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

14.1 UN-Number

14.2 UN proper shipping name
ADR/RID: FLAMMABLE LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)
IMDG: FLAMMABLE LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)
IATA: Flammable liquid, n.o.s. (Octamethylcyclotetrasiloxane)

14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for users
no data available

15. Regulatory Information

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

16. Other Information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.