





**GE Toshiba Silicones Co., Ltd.**

- Suitable extinguishing media : foam, powder, carbon dioxide
- Special fire fighting procedures : Remove sources of combustibles. Extinguish the fire using fire-fighting media listed above. The fire fighting should be done from the windward side, with suitable respiratory protective device, if necessary. Cool containers / tanks with spray water.

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment. Keep people away from the area. Work from the windward side. Remove all sources of ignition.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill is small.

#### 7. HANDLING AND STORAGE

- Handling
- Technical measures : Wear eye and hand protection when in handling. Ground equipment due to expected sensitivity to static discharge.
- Advice on safe handling : Avoid any source of ignition due to flammability.
- Storage
- Storage requirement : Store in a dark, cool place indoors, with container tightly closed.
- Safety packaging material : No information available.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Facility / Engineering measures : Well ventilated area Eyewash stations
- Standard Control Limit(SCL) / Permissible Exposure Limit(PEL) : Not established.
- Personal protective equipment
- Respiratory protection : Not applied
- Hand protection : Rubber or plastics gloves
- Eye protection : safety glasses
- Skin and body protection : Rubber boots and protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance
- Form : liquid
- Colour : clear
- Odour : odourless
- pH : Not applied
- Phase transition
- Boiling point/range : Not applied
- Melting point/range : no data available
- Flash point : 330 °C



## **GE Toshiba Silicones Co., Ltd.**

Ignition temperature	: 450 °C
Explosion limit	
Explosion limit	: no data available
Vapour pressure	: 0.24 hPa/300 °C
Density	: 0.97 g/cm <sup>3</sup> /25 °C
Solubility/qualitative	: Insoluble in water
Solubility in other solvents	: no data available

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

Stability	: The Substance is moderately stable.
Reactivity	: The catalysis of strong acids or bases cause polymerization or decomposition.
Hazardous decomposition products	: This material contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300degrees Fahrenheit (150C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant,acute toxicant, and potential cancer hazard.

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity	
Acute Oral Toxicity	: Polydimethylsiloxane (100cSt);LD50,rat,>4,800 mg/kg
Typical effect	
Skin irritation	: rabbit,No skin irritation
Eye irritation	: Polydimethylsiloxane (~12500cSt);rabbit,Transitory irritation
Sensitization	: Magnusson-Kligman;guinea pigs,In tests with guinea-pigs, the product did not show a sensitising effect (OECD 406; GPMT according to Magnusson-Kligman).
Chronic toxicity / Long-term toxicity	: Polydimethylsiloxane (60,000cSt);Oral,rat,40 mg/kg, 2 years, No toxicity information
Carcinogenicity	: no data available
Mutagenicity	: no data available
Toxicity to reproduction	: no data available
Teratogenicity	: No toxicity information
	: Polydimethylsiloxane (7cSt); Oral,rat,female(during first 6-15-day pregnancy),1000 mg/kg.day
Further information	: no data available

### **12. ECOLOGICAL INFORMATION**

Chemical fate	: no data available
Persistence / Degradability	: carbon-14 replaced polydimethylsiloxane(300cSt);the method to detect the liberation of carbon-14 dioxide by putting into activated sludge.,No biodegradation.
Bioaccumulation	: 35% emulsion of polydimethylsiloxane (50cSt);plankton and annelids,70 mg/l,8 d,Bioconcentration factor was very low.
Ecotoxicity effects	: no data available

**GE Toshiba Silicones Co., Ltd.****13. DISPOSAL CONSIDERATIONS**

Incineration should be made little by little in approved chemical incinerator in accordance with regulations. Silica particulates are formed on incineration.

**14. TRANSPORT INFORMATION**

International regulation : Non DG under air and ship transport

Domestic regulation : JFSL Designated Flammable Substances (Combustible liquids) for 2 cubic meter or more., No fire

**15. REGULATORY INFORMATION**

JFSL Designated Flammable Substances (Combustible liquids) for 2 cubic meter or more.

Japanese ISHL MSDS required substances, Not applied

Japan. PRTR Substances, Not applied.

**16. OTHER INFORMATION**

Quotation documents

ACGIH TLV for Chemical Substances

Chemical safe administration data book (The Chemical Daily Co., Ltd.)

Precaution

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and conforming safety. Never use for human applications such as implant, impregnation, and possible residue-remaining in the body.

Other precaution

Other (an address, and telephone and fax numbers for information, references) The information herein is made based on references, information and data available at present. It may be revised when new information is available. The descriptions herein are for normal handling. For special applications, make safety provisions suitable to them prior to use.





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