

## SDS Report

No. SH9008012-1/ CHEM

Date: Feb. 17, 2009

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This report is to supersede SDS report No. SH9008012/CHEM, Date:2009/02/05.

Client's name: DONGJUE SILICONE (NANJING) CO., LTD.  
Client's address: No.196, Fuyin Eastern Street, Qiaolin, Pukou District, Nanjing City, Jiangsu Province, China

SGS Ref No. : 11548070-3  
Product Name: High Voltage Insulator; Fire Resistant Silicone Rubber  
Product Code: NE-T-1, NE-T-2, NE-C-1, NE-C-2, NE-D-1, NE-D-2, NE-E-1, NE-E-2  
NE-T-1U, NE-T-2U, NE-C-1U, NE-C-2U, NE-D-1U, NE-D-2U, NE-E-1U, NE-E-2U  
NE-Z140, NE-Z150, NE-Z160, NE-Z170, NE-Z250, NE-Z260, NE-Z270

End Uses: Silicone rubber manufacture  
Composition/Ingredient: Vinyl-terminated dimethyl vinyl methyl (siloxane and polysiloxane) (30~50%); Silicon dioxide (10~30%); Hydroxy-terminated dimethyl (siloxane and polysiloxane) (<10%); Aluminum hydroxide (30~50%).

Job Receiving Date: Jan.14, 2009  
Preparation Period: Jan.14- 22, 2009

### Service Requested

Safety Data Sheet for the Product

### SUMMARY

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

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Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

*Sandy Hao*

Sandy Hao  
Lab Manager

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## Safety Data Sheet

Printing date 17.02.2009

Revision: 17.02.2009

## 1 Identification of the substance/preparation and of the company/undertaking

## · Product details

· Trade name: **High Voltage Insulator; Fire Resistant Silicone Rubber**

## · Article number:

NE-T-1, NE-T-2, NE-C-1, NE-C-2, NE-D-1, NE-D-2, NE-E-1, NE-E-2  
NE-T-1U, NE-T-2U, NE-C-1U, NE-C-2U, NE-D-1U, NE-D-2U, NE-E-1U, NE-E-2U  
NE-Z140, NE-Z150, NE-Z160, NE-Z170, NE-Z250, NE-Z260, NE-Z270

· Registration number: Not available.

· Application of the substance / the preparation: **Silicone rubber manufacture**

## · Manufacturer/Supplier:

DONGJUE SILICONE (NANJING) CO., LTD.

No.196, Fuyin Eastern Street, Qiaolin, Pukou District, Nanjing City, Jiangsu Province, China

Tel: 025-58231473

Fax: 025-58233631

· Further information obtainable from: **DONGJUE SILICONE (NANJING) CO., LTD.**

## · Information in case of emergency:

Guo ping

Tel: 025-58232142

· Email: [njjsfwb@djsilicone.com](mailto:njjsfwb@djsilicone.com)

· Reference Number: 11548070-3; SH9008012-1/CHEM

## · Remark:

The various product codes of High voltage insulator / Fire resistant silicone rubber requested evaluation by applicant are listed in Section 1, the composition (in % by weight) of which are in range of ingredients list in Section 3.

## 2 Hazards identification

· Hazard description: Not applicable.

## · Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

## · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

## · Chemical characterization

## · Description:

Mixture of substances listed below with nonhazardous additions.  
For the wording of the listed risk phrases refer to section 16.

· Dangerous components: Not applicable.

## · Non-dangerous component:

CAS: 21645-51-2 EINECS: 244-492-7	aluminium hydroxide	30~50%
CAS: 7631-86-9 EINECS: 231-545-4	silicon dioxide, chemically prepared	10~30%
CAS: 68083-18-1	siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated	30~50%
CAS: 70131-67-8	polydimethylsiloxane, hydroxy end-blocked	<10%

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**Trade name: High Voltage Insulator; Fire Resistant Silicone Rubber**

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**· Remark :**

*siloxanes and silicones, di-Me, Me vinyl, vinyl group-terminated (CAS No. 68083-18-1)*  
*Synonym: Vinyl-terminated dimethyl vinyl methyl (siloxane and polysiloxane)*

*polydimethylsiloxane, hydroxy end-blocked (CAS No. 70131-67-8)*  
*Synonym: Hydroxy-terminated dimethyl (siloxane and polysiloxane)*

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
*CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Protective equipment:**  
*Wear fully protective suit.*  
*Mouth respiratory protective device.*

## 6 Accidental release measures

- **Person-related safety precautions:**  
*Wear protective equipment. Keep unprotected persons away.*  
*Ensure adequate ventilation.*  
*Keep away from ignition sources.*
- **Measures for environmental protection:** *Do not allow to enter sewers/ surface or ground water.*
- **Measures for cleaning/collecting:** *Pick up mechanically.*
- **Additional information:** *No dangerous substances are released.*

## 7 Handling and storage

- **Handling**
- **Information for safe handling:** *Ensure good ventilation/exhaustion at the workplace.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.*  
*Keep respiratory protective device available.*
- **Storage**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:**  
*Store away from foodstuffs.*  
*Store away from flammable substances.*
- **Further information about storage conditions:** *Store in dry conditions.*

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **Ingredients with limit values that require monitoring at the workplace:**  
*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
- **DNELs:** *Not available.*
- **PNECs:** *Not available.*
- **Additional information:** *The lists valid during the making were used as basis.*

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- **Personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

· <b>General Information:</b>	
Form:	Rubber-crepe
Colour:	Milky-white
Odour:	Odourless
· <b>Change in condition:</b>	
Melting point/Melting range:	Not available.
Boiling point/Boiling range:	Not available.
· <b>Flash point:</b>	Not available.
· <b>Flammability (solid, gaseous):</b>	Not available.
· <b>Ignition temperature:</b>	Not available.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Not available.
Upper:	Not available.
· <b>Oxidizing properties:</b>	Not available.
· <b>Vapour pressure:</b>	Not available.
· <b>Density:</b>	Not available.
· <b>Relative density:</b>	Not available.
· <b>Vapour density:</b>	Not available.
· <b>Evaporation rate:</b>	Not available.
· <b>Solubility in / Miscibility with water:</b>	Not available.
· <b>pH-value:</b>	Not available.
· <b>Segregation coefficient (n-octanol/water):</b> Not available.	
· <b>Viscosity:</b>	
Dynamic:	Not available.

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

· **Acute toxicity**· **LD/LC50 values relevant for classification:**

7631-86-9 silicon dioxide, chemically prepared

Oral LD50 10000 mg/kg (rat)

70131-67-8 polydimethylsiloxane, hydroxy end-blocked

Oral LD50 &gt;15400 mg/kg (rat)

Dermal LD50 &gt;2000 mg/kg (rabbit)

· **Primary irritant effect**· **on the skin:** Irritating effect possible.· **on the eye:** Irritating effect possible.· **Sensitization:** Sensitization possible.· **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

· **Toxicokinetics, metabolism and distribution:** Not available.· **Acute effects (acute toxicity, irritation and corrosivity):** Not available.· **Repeated dose toxicity:** Not available.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Not available.

## 12 Ecological information

· **Information about elimination (persistence and degradability):** Not available.· **Behaviour in environmental systems**· **Mobility and bioaccumulation potential:** Not available.· **Ecotoxicological effects**· **Aquatic toxicity:** Not available.· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **PBT assessments:** Not available.

## 13 Disposal considerations

· **Product**· **Recommendation:** Smaller quantities can be disposed of with household waste.· **Uncleaned packaging**· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** -· **Danger code (Kemler):** -· **UN-Number:** -

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- Hazard label: -
- Description of goods: -
- Limited quantities (LQ): -
- Transport category: -
- Tunnel restriction code: -

- Maritime transport IMDG
- IMDG Class: -
- UN Number: -
- Label: -
- Packaging group: -
- EMS Number: -
- Marine pollutant: No
- Proper shipping name: -

- Air transport ICAO-TI and IATA-DGR
- ICAO/IATA Class: -
- UN/ID Number: -
- Label: -
- Packaging group: -
- Proper shipping name: -

## 15 Regulatory information

## · Sara

## · Section 355(extremely hazardous substances):

None of the ingredients is listed.

## · Section 313(Specific toxic chemical listings):

None of the ingredients is listed.

## · TSCA(Toxic Substances Control Act):

21645-51-2 aluminium hydroxide

7631-86-9 silicon dioxide, chemically prepared

## · 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.

## · Cancerogenity categories

## · EPA(Environmental Protection Agency):

None of the ingredients is listed.

## · IARC(International Agency for Research on Cancer):

7631-86-9 silicon dioxide, chemically prepared

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## · NTP(National Toxicology Program):

None of the ingredients is listed.

## · TLV(Threshold Limit Value established by ACGIH):

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

**· Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives / respective national laws.

**· Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

**· National regulations:****· Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**16 Other information**

\*\*\*\*\*  
 The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

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