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**SECTION 1: Identification of the substance/mixture and of the company****Product Identifier**

Product Name: SiSiB® STP71280

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

Relevant applications identified For industrial use

**Details of the supplier of the safety data sheet****Company**

Nanjing SiSiB Silicones Co., Ltd.  
Guanghua Sci & Tech Industrial Zone,  
No. 104, Guanghua Road, Nanjing 210007, P.R.China  
Email: SDS@SiSiB.com

**Emergency Telephone Number:** +86-25-8468-0091**SECTION 2: Hazardous identification****Classification of the substance or mixture****In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

Not a hazardous substance or mixture.

R-Phrase Description

R- -

**Label elements****In compliance with EC regulation No.1272/2008 and its amendments.****In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

R-Phrase Description

R- -

S-Phrase Description

S- -

**Other hazards**

Product is inert and stable as thick clear liquid. With metal catalysts will hydrolyze with formation of low levels of methanol and ethanol vapor and crosslink into a solid polymer.

Releases ethanol, CAS 64-17-5, at level less than 1.0 percent volume of resin. Methanol is also released; CAS 67-56-1 at levels less than 0.5 percent. Methanol is a poison at higher absorption or inhalation. Ethanol at low levels is metabolized and not considered a poison. Methanol and ethanol are easily absorbed into skin or inhaled as a vapor.

Normal use of resin as polymer and sealant product has very low ethanol and methanol emission levels when the product is cured by moisture in normal conditions. Maintain good ventilation and avoid enclosed areas in the Factory.

**SECTION 3: Composition/information on ingredients**

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**Substances****Chemical characteristics (substance)****CHEMICAL NAME:**

Polyether based Polyurethane with amino dimethoxy silane and triethoxy silane end groups.

Silane terminated polyether with reactive ethoxy silane and dimethoxy silane end groups that react in the presence of moisture and tin catalyst and harden to an inert material. Ethanol and methanol vapor in small quantity less than 1.0 percent is released upon cure. This polymer has lower methanol emission.

**Mixtures:** not applicable

**SECTION 4: First aid measures****Description of first aid measures****In the event of exposure by inhalation:**

Exposed personnel should be taken away from resin spill and given first aid like fresh air if there are breathing problems.

**In the event of splashes or contact with eyes:**

Rinse eye contact with water and seek medical advice.

**In the event of splashes or contact with skin:**

Remove contaminated clothing and wash affected areas with soap and water and seek medical help.

**In the event of swallowing:**

Give several small portions of water to drink. Do not induce vomiting.

**Most important symptoms and effects, both acute and delayed**

No data available.

**Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****Extinguishing media**

Extinguish with normal media, water, powder foam and sand.

**Special hazards arising from the substance or mixture**

Flammable as a normal hydrocarbon substance with release of carbon dioxide/monoxide and a small quantity of nitrous gases

**Advice for firefighters**

Use respiratory equipment as per normal hydrocarbon materials fire.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

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Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors.

**Environmental precautions**

Prevent liquid resin from entering waterways and sewers. Do not flush into water and use absorbent materials to contain.

**Methods and materials for containment and cleaning up**

Soak up material with sand or absorbent materials and wait for very slow atmospheric curing with some ethanol and methanol release as indicated above. Tin diketonate catalyst in dimethyl carbonate solvent or DIDP plasticizer can be added to speed up cure of spill and render inactive and solidify faster. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapors.

**Reference to other sections**

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

**SECTION 7: Handling and storage****Precautions for safe handling**

Ensure adequate ventilation and keep away from Moisture.

**Fire prevention:**

Curing can cause ethanol and methanol vapors and these can be flammable and a particular problem in empty drums, so normal factory disposal and safety procedures need to be followed.

**Recommended equipment and procedures:**

Normal factory disposal and safety procedures need to be followed.

**Prohibited equipment and procedures:**

Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

**Conditions for safe storage, including any incompatibilities**

Store between 4°C-25°C in a dry, well ventilated place. Make sure there is no possibility of entering the ground.

**Storage:**

Keep the container tightly closed in a dry, well - ventilated place.

**Packaging:**

No date available.

**Specific end use(s)**

No date available.

**SECTION 8: Exposure Controls/Personal Protection**

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**Control parameters****Occupational exposure limits:**

Maximum airborne workplace concentrations apply as per ethanol and methanol.

**Exposure controls****Personal protection measures, such as personal protective equipment**

Avoid breathing any vapors, wear eye and skin protection, and use breathing apparatus in confined areas.

**Eye/face protection**

Protective goggles

**Hand protection**

Protective gloves made of butyl rubber

**Body protection**

Wear skin protection.

**Respiratory protection**

Avoid breathing any vapors.

**SECTION 9: Physical and Chemical Properties****Information on basic physical and chemical properties****General information:**

Physical state / form: liquid  
Color: colorless  
Odor: mild

**Important health, safety and environmental information:**

Boiling Point : >250°C ; 482°F  
Melting Point : <0°C  
Specific Gravity: 1.00g/cm<sup>3</sup>  
Flash point: Min.: 237°C (459°F)  
Auto ignition Temp: not applicable  
Vapor Pressure: not applicable  
Volatiles: <0.5%  
Evaporation rate: not applicable  
Water solubility/miscibility: virtually insoluble  
Viscosity: 7000 to 11000 mpa.s at 25 °C  
pH-Value: not applicable

**Other information**

No data available.

**SECTION 10: Stability And Reactivity**

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**Reactivity**

Normal storage of material in closed drums shows no reaction even at elevated temperature. Material will very slowly react with moisture when exposed to air.

**Chemical stability**

Resin will react slowly over 2 hours with atmospheric moisture with tin catalysts such as DBTDL or DBTDA are added at 0.5% addition, and this is the designed use of the resin in sealant manufacture.

**Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

**Conditions to avoid**

Moisture

**Incompatible materials**

Tin catalysts, water and etc.

**Hazardous decomposition products**

Ethanol and methanol

**SECTION 11: Toxicological Information****Information on toxicological effects**

This family of silane terminated polyether resins is well known, and there is no knowledge of any damaging effects apart from the effects of the less than 1% ethanol and methanol vapor produced upon cross linking with moisture in the presence of catalyst. Uncatalysed polymer cures very slowly over a period of weeks.

**Mixture**

Not applicable.

**Skin corrosion/skin irritation:**

Normal industrial practice of wearing gloves and protective clothing is essential as resin is thick and will adhere to skin and needs to be removed with soap and water. Do not use solvents as this causes thinning of resin and ingress into lower layers of skin.

**Serious damage to eyes/eye irritation:**

Protective goggles to avoid spills into the eyes.

**Respiratory or skin sensitization:**

No data available

**SECTION 12: Ecological Effects****Toxicity**

It reacts very slowly with moisture to form an inert and non- toxic soft material.

**Persistence and degradability**

No data available.

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## Bioaccumulative potential

No date available.

## Mobility in soil

No date available.

## Results of PBT and vPvB assessment

No date available.

## Other adverse effects

This material is insoluble in water and should be kept away from surface waters and soil. It reacts very slowly with moisture to form an inert and non-toxic soft material. A mixture with sand and soil once reacted is inert.

## SECTION 13: Disposal considerations

### Waste treatment methods

Liquid material can be diluted with oils and solvents and incinerated as normal hydrocarbon material. Best method to dispose of unwanted material is to mix with sand and wait to cure to a non-toxic solid.

## SECTION 14: Transport Information

### Land transport ADR and RID

Road ADR:

Valuation Not regulated for transport

Railway RID:

Valuation Not regulated for transport

### Transport by sea IMDG-Code

Valuation Not regulated for transport

### Air transport ICAO-TI/IATA-DGR

Valuation Not regulated for transport

## SECTION 15: Regulatory Information

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

## SECTION 16: Other Information

### Further 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

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guarantee for any specific product features and shall not establish a legally valid contractual relationship.