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

Product Name: ADDASIL™ 12850

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**

The product has not been classified as hazardous according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Label elements**Labelling according to Regulation (EC) No 1272/2008:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental label information:

EUH210: Safety data sheet available on request.

Additional information:

No data available.

Other hazards:

No data available.

SECTION 3: Composition/information on ingredients**Chemical nature: Polyalkyleneoxidemethylsiloxane Copolymer****Mixtures**

General information

This product is a mixture

| Component | CAS No. | Concentration |
|---------------------------------|-----------|----------------------|
| Polypropanediol monobutyl ether | 9003-13-8 | >= 90.0 - <= 100.0 % |

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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SECTION 4: First aid measures

General advice:

Get medical attention if symptoms occur.

If inhaled:

Move into fresh air and keep at rest. Get medical attention if symptoms occur.

In case of eye contact:

Get medical attention if symptoms occur. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

In case of skin contact:

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

If swallowed:

DO NOT induce vomiting. Get medical attention immediately. Do not give victim anything to drink if he is unconscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed

Hazards: No information about adverse effects due to exposure.

Treatment: If swallowed, do NOT induce vomiting. Give a glass of water.

SECTION 5: Firefighting measures

Suitable extinguishing media:

Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog)

Unsuitable extinguishing media:

None known.

Hazardous combustion products

Burning can produce the following combustion products:

Oxides of carbon , Oxides of silicon

Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can be an asphyxiant.

Special fire fighting procedures

Do not direct a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity.

Special protective equipment for firefighters

Self-contained breathing apparatus with full face mask and full protective clothing.

Extinguishing media

All standard extinguishing agents are suitable.

Large fire: alcohol-type foam or universal-type foams

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Small fire: CO₂ or dry chemical**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment.

Environmental precautions

Prevent runoff

Methods and materials for containment and clean up:**Small spill:**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Large spill:

Stop leak if without risk. Move containers from spill area.

Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

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

Put on appropriate personal protective equipment. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

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Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure Controls/Personal Protection

Control parameters:

Occupational exposure limits:

None

Recommended monitoring procedures:

Appropriate Engineering Controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection:

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Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

| | |
|------------------------------------|---|
| Physical state: | Liquid |
| Color: | Colorless/Yellow |
| Odor: | Polyether |
| Odor threshold: | No data available |
| pH: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling: | No data available |
| Flash point: | 129°C (ASTM D93) |
| Evaporation rate: | No data available |
| Upper/lower flammability: | No data available |
| Explosive limits: | No data available |
| Vapor pressure: | No data available |
| Vapor density: | Heavier than air |
| Relative density: | No data available |
| Density: | 0.92~0.96g/cm ³ (25°C) |
| Solubility in water: | Insoluble in water, ,Soluble in polyols |

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| | |
|----------------------------|----------------------------|
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity: | 40~60 |
| Explosive properties: | No data available |
| Oxidizing properties: | No classified as oxidizing |

SECTION 10: Stability And Reactivity

| | |
|-------------------------------------|---|
| Reactivity: | Stable under normal conditions. |
| Chemical stability: | The product is stable. |
| Possibility of hazardous reactions: | Under normal conditions, hazardous reactions will not occur. |
| Conditions to avoid: | No specific data. |
| Incompatible materials: | No specific data. |
| Hazardous decomposition Products: | Under normal conditions, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological Information

Toxicological information appears in this section when such data is available.

Acute toxicity**Acute oral toxicity**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

As product: The LC50 has not been determined.

Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

Serious eye damage/eye irritation

May cause slight temporary eye irritation.

Corneal injury is unlikely.

Sensitization

For skin sensitization:

Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization:

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No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

Carcinogenicity

No relevant data found.

Teratogenicity

Contains component which did not cause birth defects or any other fetal effects in lab animals.

Reproductive toxicity

Contains component which have interfered with fertility in animal studies. In animal studies on component(s), effects on reproduction were seen only at doses that produced significant toxicity to the parent animals.

Mutagenicity

Contains a component which were negative in in vitro genetic toxicity studies. Contains component(s) which were negative in animal genetic toxicity studies.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12: Ecological Effects

Ecotoxicological information appears in this section when such data is available.

Toxicity**Polypropanediol monobutyl ether****Acute toxicity to fish**

Substances have mild acute toxicity to aquatic organisms(LC50/EC50 of the most sensitive species tested is between 10 and 100 mg/L). LC50, Pimephales promelas, 96 H, 20-65 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna 48 h, 26 mg/l

Acute toxicity to algae/aquatic plants

EC50, > 100 mg/l

Chronic toxicity to fish

IC50, Bacteria, 16h, 19,000 mg/l

Persistence and degradability**Polypropanediol monobutyl ether**

Biodegradability: According to strict OECD test regulations, this substance can not be considered as easy to biodegrade, but these results do not necessarily indicate that the substance is not biodegradable under environmental conditions. 10-Day test: failed

Biodegradation: 25 %

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Exposure time: 28 d

Method: OECD Test Guideline 310

Chemical oxygen demand: 2.04 mg/mg

Biological ODS(BOD)

| Cultivation time | Biochemical oxygen demand |
|------------------|---------------------------|
| 5 d | 5% |
| 10 d | 5% |
| 20 d | 15% |

Bioaccumulative potential**Polypropanediol monobutyl ether**

Bioaccumulation: Since the molecular weight is relatively high(MW is greater than 1000), there will be no bioaccumulation.

Mobility in soil: No data available.

SECTION 13: Disposal considerations**Waste treatment methods****Product****Methods of disposal:**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging:**Methods of disposal**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport Information

ADR: Not regulated.

AND: Not regulated.

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RID: Not regulated.
 IMDG: Not regulated.
 IATA: Not regulated.

Special precautions for user:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.

SECTION 15:Regulatory Information

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

Carcinogen: Not listed
 Mutagen: Not listed
 Toxic to reproduction: Not listed
 PBT: Not listed
 vPvB: Not listed

Other EU regulations:

REACH Status:

The substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

Aerosol dispensers: Not applicable.

National regulations

International regulations

International lists:

Australia inventory (AICS) All components are listed or exempted.
 Japan inventory All components are listed or exempted. Updated KN 061027
 China inventory (IECSC) All components are listed or exempted.
 Korea inventory All components are listed or exempted.
 Canada inventory All components are listed or exempted.
 New Zealand Inventory (NZIoC) All components are listed or exempted.
 Philippines inventory (PICCS) All components are listed or exempted.
 United States inventory (TSCA 8b) All components are listed or exempted.
 Taiwan inventory (CSNN) All components are listed or exempted.
 Chemical Convention List Schedule I Chemicals:
 Weapons Not listed
 Chemical Convention List Schedule II Chemicals:
 Weapons Not listed
 Chemical Convention

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| Weapons | Not listed |
| Chemical Safety Assessment: | This product contains substances for which Chemical Safety Assessments are still required. |

SECTION 16:Other Information

Full text of abbreviated H Statements:

| | |
|-------------------|--|
| H226 | Flammable liquid and vapor. |
| H361f (Fertility) | Suspected of damaging fertility. |
| H411 | Toxic to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]:

| | |
|----------------------------|--|
| Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2, H361f (Fertility) | TOXIC TO REPRODUCTION (Fertility) - Category |
| Aquatic Chronic 4, H413 | AQUATIC HAZARD (LONGTERM) - Category 4 |

Full text of abbreviated R phrases:

| | |
|-----|---|
| R62 | Possible risk of impaired fertility. |
| R53 | May cause long-term adverse effects in the aquatic environment. |

Full text of classifications [DSD/DPD]:

| | |
|------------|----------------------------------|
| Repr.Cat.3 | Toxic to reproduction category 3 |
|------------|----------------------------------|

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