

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

Product Name: ADDASIL™ 13888

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 according to 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

None

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

General information: This product is a mixture.

Component	CAS-No.	EC-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	≥0.1-1.0≤

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

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Classification

Chemical name	Classification	Notes
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures**General advice**

Get medical attention if symptoms occur.

Description of first aid measures**If inhaled**

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

In case of skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. 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.

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.

media:**Hazardous combustion products**

Burning can produce the following combustion products:

Oxides of carbon, Oxides of silicon

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

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

Small fire: CO₂ or dry chemical

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

Avoid contact with eyes and skin. Avoid contact with liquid and vapors. Wear suitable protective equipment.

Environmental precautions:

Prevent runoff

Methods and materials for containment and cleaning 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:

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, fumed 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.

Skin protection

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 cases 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

Physical state	liquid
Color	colorless/yellow
Odor	polyether
Odor Threshold	no data available
pH	4.5~7.0 (1% aqueous solution)
Melting point/range	no data available
Freezing point	no data available
Initial boiling point and boiling	no data available
Flash point:	110°C (ASTM D93)
Evaporation rate (Butyl Acetate = 1)	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Vapor density	heavier than air

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Relative density	no data available
Water solubility:	Insoluble in water, Soluble in polyols
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	(800~1250) mPa.s/25°C
Explosive properties	not explosive
Oxidizing properties	The substance or mixture is not 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.

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:

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(s) 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.

COMPONENTS INFLUENCING TOXICOLOGY:**Octamethyl Cyclotetrasiloxane****Acute oral toxicity**

LD50, Rat, male, > 4,800 mg/kg No deaths occurred at this concentration.

Acute dermal toxicity

LD50, Rat, male and female, > 2,400 mg/kg No deaths occurred at this concentration.

Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, dust/mist, 36 mg/l OECD Test Guideline 403

SECTION 12: Ecological Effects

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

Toxicity**Octamethyl Cyclotetrasiloxane****Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, > 0.022 mg/l

No toxicity at the limit of solubility

LC50, Cyprinodon variegatus (sheepshead minnow), flow-through, 14 d, > 0.0063 mg/l

Acute toxicity to aquatic invertebrates

No toxicity at the limit of solubility

EC50, Mysidopsis bahia (opossum shrimp), flow-through test, 96 Hour, > 0.0091 mg/l No toxicity at the limit of solubility

EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, > 0.015 mg/l

Acute toxicity to algae/aquatic plants

No toxicity at the limit of solubility

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate, > 0.022 mg/l

Chronic toxicity to fish

No toxicity at the limit of solubility

NOEC, Oncorhynchus mykiss (rainbow trout), 93 d, \geq 0.0044 mg/l

Chronic toxicity to aquatic invertebrates

No toxicity at the limit of solubility

NOEC, Daphnia magna (Water flea), 21 d, \geq 0.0079 mg/l

Persistence and degradability

Octamethyl Cyclotetrasiloxane

Biodegradability:

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

Biodegradation: 3.7 %

Exposure time: 28 d

Method: OECD Test Guideline 310

Stability in Water (1/2-life)

Hydrolysis, DT50, 69.3 - 144 Hour, pH 7, Half-life Temperature 24.6 °C, OECD Test Guideline 111

Photodegradation

Atmospheric half-life: 16d

Method: Estimated.

Bioaccumulative potential

Octamethyl Cyclotetrasiloxane

Bioaccumulation: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

Partition coefficient: n-octanol/water (log Pow): 6.49 Measured

Bioconcentration factor (BCF): 12,400 Pimephales promelas (fathead minnow) Measured

Mobility in soil

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Octamethyl Cyclotetrasiloxane

Expected to be relatively immobile in soil (Koc > 5000).

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**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

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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 Weapons Not listed

Convention

List Schedule I Chemicals:

Chemical Weapons Not listed

Convention

List Schedule II Chemicals:

Chemical Weapons Not listed

Convention

Chemical Safety Assessment:

This product contains substances for which Chemical Safety Assessments are still required.

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.