## SECTION 1: Identification of the substance/mixture and of the company

**Product Identifier**

Product Name: Sikoat™ ERC1502

Chemical Name: Release Coating Emulsion

**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

**Most Important Hazards**

**Adverse human health effects**

Slightly irritating to eyes and skin.

**Physical and chemical hazards**

**Fire or explosion**

During storage flammable gas may be released. Flammable or explosive vapour/air mixtures may be formed. (Hydrogen).

**Further hazards**

Silicium-hydrogene bond (Si-H):

Violent reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

**Specific hazards**

According to EC criteria, this product is not classified as a "hazardous preparation".

## SECTION 3: Composition/information on ingredients

**PREPARATION**

**Chemical nature**

Non-ionic aqueous emulsion of polyorganosiloxanes.

**Components contributing to the hazard**

None.

**Components presenting hazards**

None.

**Further information**

Contains: Silicon-hydrogen bond (Si-H)

## SECTION 4: First aid measures

**Inhalation**

Not specifically applicable.

**Skin contact**

Remove all contaminated clothing and footwear.

Wash with soap and water.

In case of inflammation (redness, irritation, ...) obtain medical attention.

Show this sheet to the doctor.

**Eye contact**

Rinse with running water whilst keeping the eyes wide open. (at least 15 minutes).

**Ingestion**

NEVER attempt to induce vomiting. Rinse mouth out with water.

**Further information**

Use appropriate protective equipment when treating a contaminated person.

Place contaminated clothing in a sealed bag for disposal.

## SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable**

Foam

Carbon dioxide ($CO_2$)

Powders

**Not suitable**

Alkaline powders.

**Specific hazards**

Combustible, following the evaporation of water.

Hydrogen may be released.

For further information, refer to section 10: "Stability and Reactivity".

**Specific fire-fighting methods**

Cool down the containers/equipment exposed to heat with a water spray.

**Protection of fire-fighters**

Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

**Personal precautions**

Personal protective equipment:

PVC gloves.

Safety glasses.

For further information refer to section 8 "Exposure-controls/personal protection". Remove all sources of ignition.

Mechanically ventilate the spillage area.

Remove all incompatible materials as quickly as possible:

Alkalis and caustic products.

Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions**

For a large spillage, contain the spillage by bunding.

Do NOT discharge into drains (explosive hazard).

**Methods for cleaning up**

**Recovery**

Collect up the product and place it in a spare container:

Suitably labelled.

Tightly closed.

Equipped with a degassing device. Use flame-proof equipment.

Keep the recovered product for subsequent disposal.

**Neutralization**

Absorb non-recoverable liquid with:

Dry sand or dry inert absorbent.

Do NOT use products which are basic.

**Disposal**

Incinerate contaminated materials at an authorized installation.

## SECTION 7: Handling and storage

**HANDLING**

Technical measures

Ventilation.

Earth the equipment used to transfer the product.

**Measures**

Before use, purge the vapour space of the container with an inert gas (nitrogen) to:

Eliminate all traces of explosive gas (Hydrogen). Avoid the build-up of electrostatic charge.

**Safe handling advice**

Only use in well-ventilated areas.
Handle and open the container with care.
Do not mix with incompatible materials (See list section 10).

**STORAGE**

**Technical measures**

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Storage facilities should be:
equipped with ventilation at high level.

**Storage conditions**

**Recommended**

Store:
Only in the original container (with a breathing bung).
Away from incompatible materials.
In a well-ventilated area
Away from any source of ignition.
To guarantee the quality and properties of the product keep:
The container tightly closed.
Protected from frost.
At temperatures not exceeding 30°C.

**To be avoided**

The possible development of bacteriological contamination due to prolonged storage and/or storage in a badly cleaned or unclosed container.

**Incompatible products**

Alkalis and caustic products. Products reacting with water.
Chemical compounds with mobile hydrogen.
Refer to the detailed list of incompatible materials (section 10 "Stability/Reactivity").

**Packaging** - Plastic container. (equipped with a venting device).
Steel drums varnished with epikote. (with a breathing bung).
Plastic drums. (with a breathing bung).

**Packaging materials**

**Recommended**

Polyethylene. Coated steels.

**Not suitable**

Uncoated metals.
Materials other than those recommended.

## SECTION 8: Exposure Controls/Personal Protection

**Engineering measures**

During the transformation process: Ensure good ventilation of the work station.

**Personal protective equipment**

**Hand protection**

Protective gloves made of PVC. Nitrile protective gloves

Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required.

**- Eye protection**

Safety spectacles.

**Collective emergency equipment**

Eye fountain. Safety shower.

## SECTION 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid |
| **Form** | viscous |
| **Color** | white milky |
| **Odor** | weak |
| **Ph** | 4 - 6 |
| **Specific temperatures** | |
| **Congealing** | 0°C (Initial solidification). (for water) |
| **Boiling** | 100°C. (for water) |
| **Flammability characteristics** | |
| **Flash point** | > 90°C (Closed cup). |
| **Auto-ignition temperature** | Hydrogen: 400°C (Spontaneous ignition temperature). |
| **Oxidizing properties** | According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship) |
| **Explosion properties** | |
| **Explosive limits in air** | Applicable |
| **Lower** | Hydrogen: 4% (volume) |
| **Upper** | Hydrogen: 74% (volume) |
| **Vapor pressure** | 2.3 kPa, at 20°C |
| **Specific gravity** | Approx. 1000 kg/m3 at 25°C |
| **Solubility** | |
| **in water** | Dispersible |
| **in organic solvents** | Insoluble in common organic solvents |
| **Kinematic viscosity** | approx. 150 $mm^2/s$ at 25 °C |

## SECTION 10: Stability And Reactivity

**Stability**

Stable at room temperature.

**Hazardous reactions**

**Materials to avoid**

A fire or explosion hazard arises since highly flammable gas
(hydrogen) is released when it is in contact with:
Alkalis and caustic products.
Strong oxidizing agents.
Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

**Hazardous decomposition products**

On storage, may release a highly flammable gas (Hydrogen)
which gives rise to fire and explosion hazards.
On combustion or on thermal decomposition (following the evaporation of water) releases:
(Carbon oxides (CO + $CO_2$)). amorphous silica

## SECTION 11: Toxicological Information

**Acute toxicity**

Not classified as harmful by inhalation
Not classified as harmful by contact with skin Not classified as harmful if swallowed
(by calculation according to the conventional method)
(internal evaluation)

**Local effects**

Repeated or prolonged contact may cause slight irritation to the skin.
May cause slight temporary irritation to ocular mucous membranes.
Not classified as irritating to skin and eyes
(by calculation according to the conventional method) (internal evaluation)

**Sensitisation**

Not classified as sensitising by skin contact
(by calculation according to the conventional method) (internal evaluation)

**Specific effects**

**Mutagenicity**

Data available only for some components
No genotoxic potential was observed in tests performed on the components of the preparation.

## SECTION 12: Ecological Effects

**MOBILITY**

**Expected behaviour of the product**

Ultimate destination of the product: WATER.

**BIODEGRADABILITY**

**Ultimate aerobic biodegradability**

Silicone component: Not biodegradable. (Published data).

**BIOACCUMULATION**

**Bioconcentration factor.:**

Silicone component: Not bioaccumulable. (Published data).

**ECOTOXICITY**

**Effects on the aquatic environment**

Silicone component:

NOT considered to be: Harmful to aquatic organisms. (Published data).

**Further information**

Not classified as Dangerous for the Environment, according to EC criteria.

(by calculation according to the conventional method)

## SECTION 13: Disposal considerations

**RESIDUES FROM PRODUCT**

**Prohibition**

Do NOT discharge waste into drains.

**Destruction/Disposal**

Dispose of at a licensed waste collection point.

**CONTAMINATED PACKAGING**

**Decontamination/cleaning**

Allow it to drain thoroughly.

Rinse with water.

**Destruction/Disposal**

Recycle following cleaning or dispose of at an authorised site.

**NOTE**

The user's attention is drawn to the possible existence of local regulations regarding disposal.

## SECTION 14: Transport Information

**INTERNATIONAL REGULATIONS**

**Land**

**Rail/road (RID/ADR)**

NOT restricted.

**Sea (IMO/IMDG)**

NOT restricted.

**Air (ICAO-IATA)**

Transport by air is FORBIDDEN if the packaging has a breathing/venting bung.

**NOTE**

The above regulatory prescriptions are those valid on the date of publication of this sheet.

Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory Information

**LABELLING**

**EC regulations**

Mandatory labelling (self-classification) of hazardous preparations: NOT APPLICABLE

**Identification of the hazardous product**

Not applicable.

**R phrases**

No R phrases.

**S phrases**

No S phrases.

**NOTE**

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Material Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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