

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

1 Identification

- **Product identifier**
 - **Trade name:** Tacusil 810051
 - **Recommended use** One part moisture cure silicone
 - **Restrictions on use** For industrial use only
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
ResinLab China
Number 339, Petrochemical Avenue, Petrochemical Zone, Daya Bay,
Huizhou City, Guangdong, China, 516211
(86 752) 5533798
 - **Information Department:** Product Safety Department: msds@resinlab.com
 - **Emergency Telephone Number:**
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Eye Dam. 2B H320 Causes eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
 - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**
H320 Causes eye irritation.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
 - **NFPA System**
 - **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 1
Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

- **HMIS System**
 - **HMIS-ratings (scale 0 - 4)**
- | | |
|------------|---|
| HEALTH | 1 |
| FIRE | 1 |
| REACTIVITY | 0 |
- Health = 1
Fire = 1
Reactivity = 0

- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Dangerous components:**

CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	1-5%
CAS: 70131-67-8 EINECS: 213-915-7	Siloxanes and Silicones, di-Me, hydroxy-terminated	70-80%
	Oxime silane	1-10%
	Catalyst	0.5-1.5%
CAS: 99439-28-8	Silicon dioxide	1-5%

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

Trade name: Tacusil 810051

(Contd. of page 1)

- **Additional information:**
If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**
 - **After inhalation:**
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and if symptoms occur call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
 - **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Remove all contaminated clothing and wash before reuse.
If skin rash or irritation occurs, seek medical advice.
 - **After eye contact:**
Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.
Get medical attention.
 - **After swallowing:**
If victim is unconscious; never give anything by mouth.
If victim is conscious, rinse out mouth with water.
Get medical attention
 - **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
Alcohol resistant foam
Carbon dioxide
dry chemical
- **Special hazards arising from the substance or mixture**
Will not burn unless preheated.
acetone, aldehydes, ammonia and some organic materials.
Carbon dioxide (CO₂) and Carbon monoxide (CO)
- **Advice for firefighters**
 - **Protective equipment:**
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.
For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Item 13.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Keep away from incompatible material(s).
Avoid any release into the environment.
Do not breathe dust/fumes/mist/vapor/spray.
Avoid contact with eyes, skin and clothing.
Keep away from heat, sparks, flames and ignition sources.
Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Keep stored in accordance with local, regional, national, and international regulations.

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(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

Trade name: Tacusil 810051

(Contd. of page 2)

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m ³ *inhalable fraction

Additional Occupational Exposure Limit Values for possible hazards during processing: None.

Exposure controls

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.

Personal Protective Equipment (PPE)

Breathing equipment:

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

Local exhaust ventilation is recommended when product is aerosolized or if vapor is generated.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves



Chemical resistant gloves

- **Eye protection:** tightly sealed goggles
- **Body protection:** Appropriate chemical resistant clothing.

Limitation and supervision of exposure into the environment

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

- **Form:** Liquid
- **Color:** Black
- **Odor:** Characteristic
- **Odor threshold:** Mild
- **Odor threshold:** Not determined.

• **pH-value:** Not determined.

Change in condition

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

• **Flash point:** >93 °C (>199.4 °F)

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** Not determined.

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

• **Vapor pressure:** Not determined.

• **Vapor Density:** not determined

• **Density at 20 °C (68 °F):** 0.98 g/cm³ (8.18 lbs/gal)

- **Relative density:** Not determined.
- **Vapor density:** Not determined.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

Trade name: Tacusil 810051

(Contd. of page 3)

- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
- **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- **Dynamic:** Not available.
- **Kinematic:** Not available.
- **VOC content:** 0.00 %
0.0 g/l / 0.00 lb/gl

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials.
- **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**
 - Oxidizing agents
 - Free radical producing initiators.
 - Peroxides
 - Bases (Alkalis)
- **Hazardous decomposition products:**
 - Carbon Monoxide and Carbon Dioxide
 - Aldehyde
 - Ammonia
 - Acetone

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

Oral	LD50	>15,400 mg/kg (rat) Reference: ACToR (2011).
Dermal	LD50	mg/kg (rabbit) (> 2000 mg/kg) > 16 mL/kg (rabbit) Reference: ACToR (2011).
Inhalative	LC50/4 h	mg/l (rat) (LC50/7 hours > 8.75 mg/l) No changes were found in lung, thorax, or respiratory system. Reference: ACToR (2011).

1333-86-4 Carbon black

Oral	LD50	>10,000 mg/kg (rat) (Toxicity not anticipated under normal conditions)
Dermal	LD50	>3,000 mg/kg (Test species: n/a) (Toxicity not anticipated under normal conditions)
Inhalative	LC50/4 h	mg/l (Test species: n/a) (Toxicity not expected based on acute oral data)

· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1333-86-4	Carbon black	2B
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

EC50	mg/kg (Human)	Transient conjunctival irritation were observed in rabbits and humans within 24-48 hours after exposure. No more details were available; the substance was classified as a dermal irritant (Category 2) for safety reason. Reference: HSNO CCID (2011).
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1333-86-4 Carbon black

EC50	mg/kg (rabbit)	(None showed any signs of skin irritation)
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(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

Trade name: Tacusil 810051

(Contd. of page 4)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No data available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.
- **General notes:**
 - Water hazard class 1 (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.
- **Results of PBT and vPvB assessment**
 - **PBT:** None of the ingredients is listed.
 - **vPvB:** None of the ingredients is listed.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
 - **Recommendation:** Dispose of according to your local waste regulations.

14 Transport information

· UN-Number	
· DOT, ADN, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture	
· SARA Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· SARA Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· SARA Section 311/312 (Hazardous Chemical Inventory Reporting)	
1333-86-4	Carbon black A, C 1-2.5%
· Hazard Abbreviations for SARA 311/312	
A - Acute Health Hazard	
C - Chronic Health Hazard	
F - Fire Hazard	
R - Reactive Hazard	
S - Sudden Release of Pressure Hazard	
· TSCA (Toxic Substances Control Act):	
70131-67-8	Siloxanes and Silicones, di-Me, hydroxy-terminated
1333-86-4	Carbon black
· TSCA new (21st Century Act) (Substances not listed)	
	Oxime silane
99439-28-8	Silicon dioxide
	Catalyst
· Proposition 65	
· Chemicals known to cause cancer:	
1333-86-4	Carbon black
· 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.	

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Tacusil 810051

(Contd. of page 5)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

1333-86-4 Carbon black

A4

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

None of the ingredients is listed.

· International Regulation Lists

· Chinese Chemical Inventory of Existing Chemical Substances:

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

1333-86-4 Carbon black

· National regulations:

· Japanese Existing and New Chemical Substance List:

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

1333-86-4 Carbon black

· Korean Existing Chemical Inventory:

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

1333-86-4 Carbon black

· European Pre-registered substances:

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

1333-86-4 Carbon black

· EINECS List:

70131-67-8 Siloxanes and Silicones, di-Me, hydroxy-terminated

1333-86-4 Carbon black

· ELINCS List:

None of the ingredients is listed.

· REACH - Substances of Very High Concern (SVHC) List:

None of the ingredients is listed.

· Restriction of Hazardous Substances Directive (RoHS) list:

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department Issuing (M)SDS:** Product Development Department

· **Contact:** msds@resinlab.com

· **Date of preparation / last revision** 01/23/2018 / -