

SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name) : SIFACOAT-WHITE

Recommended use of the chemical and restrictions on use

Recommended use: Coatings

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information : SIFACOATINGS CO., Ltd.
3-34, Tokumoto, Nonoichi-city,
Ishikawa Japan

Contact person : info@sifacoatings.co.jp

Telephone : +81-76-225-3280

Emergency telephone number : +81-76-225-3280

2 Hazard(s) identification

GHS classification:

Physical Hazards:

Flammable liquids

Category 4

GHS label elements:

Pictograms: No symbol

Signal Word: Warning

Hazard Statement: Combustible liquid.

Precautionary Statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

SIFACOAT-WHITE**Other hazards which do not result in GHS classification:**

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3 Composition/information on ingredients

Chemical nature: Silicone compound

Mixtures

Chemical Identity	CAS number	Concentration*
TITANIUM DIOXIDE	13463-67-7	1 - 10%
Organotitanium compound	Trade secret	1.0 - 10%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1.0%

* Concentration may be shown with a range due to confidentiality.

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

Trade secret information: ** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4 First-aid measures

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin Contact: Wash area with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Do NOT induce vomiting. Give small amounts of water to drink. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

5 Fire-fighting measures

Extinguishing media: Water spray

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

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Unusual Fire & Explosion Hazards:	In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
Special fire-fighting procedures:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use standard firefighting procedures and consider the hazards of other involved materials.
Protective Measures:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Product releases methanol during application and curing. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid inhalation of vapors and spray mists. Keep container closed. Keep out of reach of children.
Environmental Precautions:	Do not allow runoff to sewer, waterway or ground.
Methods or materials for containment and cleaning up:	Remove sources of ignition. Take up with an absorbent for chemicals or, otherwise use dry sand.
Prevention of secondary hazards:	Caution: Contaminated surfaces may be slippery. See Section 8 of the SDS for Personal Protective Equipment.

7 Handling and storage**Handling**

Technical measures (e.g. Local and general ventilation):	Eye wash facilities and emergency shower must be available when handling this product.
Safe handling advice:	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. See Section 8 of the SDS for Personal Protective Equipment. Use only in well-ventilated areas.
Contact avoidance measures:	Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Storage

Safe storage conditions:	Store in a dark, cool place indoors, with container tightly closed.
Safe packaging materials:	No data available.

SIFACOAT-WHITE**8 Exposure controls/personal protection****Control Parameters****Occupational Exposure Limits:**

Chemical name	Type	Exposure Limit Values	Regulation Sources
TITANIUM DIOXIDE - Dust.	TLV	0.025 mg/m3	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (04 2020)

Personal protective equipment (PPE)

Respiratory Protection:	Wear suitable respiratory protection.
Hand Protection:	Chemical resistant gloves
Eye Protection:	Safety glasses with side shields
Skin and Body Protection:	Chemical resistant clothing Safety shoes

9 Physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	White
Odor:	Faint
Odor threshold	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flammability	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point	70 °C
Evaporation rate	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
SADT	No data available.
pH	No data available.
Viscosity, dynamic:	15,000 mPa·s
Viscosity, kinematic:	No data available.
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water)Log Pow	No data available.
Vapor pressure	No data available.
Density	1.6 g/cm3 (23 °C)
Relative density	1.6(23 °C)

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Vapor density No data available.

10 Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Moisture. Sunlight.
Incompatible Materials:	Water Acids. Bases.
Hazardous Decomposition Products:	Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

11 Toxicological information**Acute toxicity (list all possible routes of exposure)****Oral**

Product: Not classified for acute toxicity based on available data.

Components:

TITANIUM DIOXIDE LD 50 (Rat): > 10,000 mg/kg

Organotitanium
compound

No data available.

Octamethylcyclotetrasilox
ane

LD 50 (Rat): > 4,800 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

TITANIUM DIOXIDE LD 50 (Rabbit): > 10,000 mg/kg

Organotitanium
compound

No data available.

Octamethylcyclotetrasil
oxane

LD 50 (Rat): > 2,375 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

SIFACOAT-WHITE**Skin Corrosion/Irritation****Product:** No data available.**Components:**

TITANIUM DIOXIDE No data available.

Organotitanium
compound No data available.Octamethylcyclotetrasil
oxane OECD Test Guideline 404 (Rabbit): Non irritating**Serious Eye Damage/Eye Irritation****Product:** No data available.**Components:**

TITANIUM DIOXIDE No eye irritation

Organotitanium
compound No data available.Octamethylcyclotetrasil
oxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating**Respiratory sensitization****Product:** No data available.**Components:**

TITANIUM DIOXIDE No data available.

Organotitanium
compound No data available.Octamethylcyclotetrasil
oxane No data available.**Skin sensitization****Product:** No data available.**Components:**

TITANIUM DIOXIDE No data available.

Organotitanium
compound No data available.Octamethylcyclotetrasil
oxane No data available.**Carcinogenicity****Product:** No data available.

SIFACOAT-WHITE**Components:**

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane Inhalation

Japan Society for Occupational Health: Carcinogen:

No carcinogenic components identified

Japan. ISHL Designated Carcinogen:

No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity**In vitro**

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

In vivo

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD 475) Inhalation:
Dominant lethal assay (OECD 478) Oral: negative

Reproductive toxicity

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

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Octamethylcyclotetrasiloxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane No data available.

Aspiration Hazard

Product: No data available.

Components:

TITANIUM DIOXIDE No data available.

Organotitanium compound No data available.

Octamethylcyclotetrasiloxane No data available.

Other effects: No data available.

12 Ecological information

Ecotoxicity:**Acute hazards to the aquatic environment****Fish**

Product: No data available.

Components:

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TITANIUM DIOXIDE	LC0 (Leuciscus idus, 48 h): > 1,000 mg/l
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l

Aquatic Invertebrates

Product:	No data available.
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Components:

Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; EC50 (Daphnia magna, 48 h): > 0.015 mg/l
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Toxicity to Aquatic Plants

Product:	No data available.
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Components:

TITANIUM DIOXIDE	No data available.
Organotitanium compound	No data available.
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l

Toxicity to microorganisms

Product:	No data available.
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Components

TITANIUM DIOXIDE	EC0 (Pseudomonas putida, 24 h): > 10,000 mg/l
Organotitanium compound	No data available.
Octamethylcyclotetrasiloxane	No data available.

Chronic hazards to the aquatic environment**Fish**

Product:	No data available.
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Components:

Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l
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Aquatic Invertebrates

Product:	No data available.
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Components:

Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): > 0.015 mg/l
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Toxicity to Aquatic Plants

Product:	No data available.
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Components:

TITANIUM DIOXIDE	No data available.
Organotitanium compound	No data available.
Octamethylcyclotetrasiloxane	No data available.

Persistence and Degradability

SIFACOAT-WHITE**Biodegradation****Product:** No data available.**Components:**

TITANIUM DIOXIDE 0 %
Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)) Not readily biodegradable. Persistent

BOD/COD Ratio**Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Components:**

Octamethylcyclotetrasiloxane Bioconcentration Factor (BCF): 12,400

Partition Coefficient n-octanol / water (log Kow)**Product:** No data available.**Mobility in soil:** No data available.**Hazardous to the ozone layer:** Not Regulated**Further Information:** No data available.**13 Disposal considerations**

General information: The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

Disposal methods: This product falls under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with this law and local regulations.

Contaminated Packaging: Dispose of as unused product.

14 Transport information**International regulations****IATA**

Not Regulated.

IMDG Code

Not Regulated.

National Regulations**Domestic Standard:** In compliance with domestic law.

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Special precautions for user:

This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product is not transported in bulk.

15 Regulatory information**Japan CSCL:**

Priority Assessment Chemical Substances: Not Regulated

Monitoring Chemical Substances: Not Regulated

Law concerning Pollutant Release and Transfer Register:

Specified Class 1 substance(s): Not Regulated.

Class 1 Substance(s): Not Regulated.

Class 2 Substance(s): Not Regulated.

Industrial Safety and Health Act:

Article 57-2 Regulated Substance(s): Titanium dioxide;

Article 57 Regulated Substance(s) subject to labeling: Titanium dioxide

Carcinogens (Enforcement Rule Art. 577-2-3) subject to 30-year storage of work records, etc.: Not Regulated

Organic Solvent Regulation:**Specified Substances Regulation:**

Not Regulated

Class 1 designated chemical substances:

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Poisonous and Deleterious Substances Control Act:**Specified poisonous substance(s):**

Main law: Not Regulated

Cabinet order: Not Regulated

SIFACoAT-WHITE**Poisonous Substance(s):**

Main law: Not Regulated

Cabinet order: Not Regulated

Deleterious Substance(s):

Main law: Not Regulated

Cabinet order: Not Regulated

Fire Service Law: Group 4: Flammable liquids, Type 3 petroleum, Water insoluble liquid Hazardous rank III
Keep away from fire

High Pressure Gas Safety Law: Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster: Not Regulated

Inventory Status:

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.

16 Other Information

Issue Date: 06/06/2024
SDS No.:

SIFACOAT-WHITE**Disclaimer:****Notice to reader**

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the body.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Literature Reference:

No data available.