

Ti9 Titanium Shield Coating Material Safety Data Sheet

Date issue:17/1/2018 Revision date:17/1/2018

SECTION 1 Chemical Product And Company Identification

Product Code: Ti9

Commodity Name: Ti9 Titanium Shield Coating Company Identification: SUPAHADO SDN.BHD.
For Information, Call: TEL: +604 827 6781

496-g . Jalan Ayer Itam , 11400 Penang . Malaysia

Product Use: For industrial use only,not intended for use as a medical device or drug.

SECTION 2 Ingredients

| Ingredient name : | | % by Wt | Tetraethyl Orthosilicate | 0.1 - 10 % |
|---|--------------|--------------------------|--|------------|
| Alkoxylsilane Oligmer (Trade Secret) | | 5 - 45 % | Metal-chelate compound (Trade Secret) | 1 - 10 % |
| Alkoxylsiloxane Compound (Trade Secret) | | 5 - 45 % | Anti-Bacterial agent (Trade Secret) | 0.1 - 5 % |
| Fluoropolymer (Trade Secret) | | 0.1 - 10 % | Blue Light Cutting Agent (Trade Secret) | 0.1 - 5 % |
| Ethanol [Flammable Liquid] | | 10 - 90 % | PM Solvent | 10 - 90 % |
| Butyl alcohol [Flammable Liquid] | | 10 - 90 % | Micro-Copper Gold Powder | 0.1 - 5 % |
| Fluoro-Solvent (Trade Secret , N | o PFOA/PEOS) | 10 - 90 % | Polymer Wetting agent (Tra <mark>de Secret)</mark> | 0.1 - 5 % |
| Nano Ti02 Catalyst | | 0.1 - 1 <mark>0 %</mark> | | |

SECTION 3 Hazards Identification

Hazard category: Flammable liquid (Category 3). Acute toxicity, inhalation (Category 3).

Eye irritation (Category 2):







Signal word: Danger

Hazard warning: Flammable liquid and vapor. Cause serious eye irritation. Toxic if inhaled.

statements and Avoid breathing dust / fume / gas / mist / vapor / spray.

Precautionary statements: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses , if present and easy to do. Continue rinsing Call the doctor/physician.

INHALATION: Vapors may cause irritation of the respiratory system.

Signs/symptoms may include cough, sneezing, nasal, discharge, headache,

hoarseness and nose throat pain.

SKIN CONTACT: Contact with the skin during product use is not expected

to result in significant irritation.

 $\label{eq:energy} \mbox{EYE CONTACT}: \mbox{Contact with the eyes during product use is not expected}$

to result in significant irritation.



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SECTION 4 First Aid Measures

Eyes: Rinse immediately with plenty of water for at least 15 minutes. In cause of

eye irritation, seek medical attention.

Skin: In cause of contact with skin wash off immediately with soap and water.

Ingestion: Seek immediate medical attention.

Inhalation: Remove the casualty into fresh air and keep him calm. Ensure supply of

fresh air. Take medical treatment.

Notes to Physician: Show this safety data sheet to the doctor in attendance.

SECTION 5 First Fighting Measures

General Information: Approved pressure demand breathing apparatus and protective clothing

should be used for all fires.

Extinguishing Media: Foam, Carbon dioxide (CO₂), Dry powder. Exposure hazards: Vapors form explosive mixutres with air.

Vapors may travel considerable distance to source of ignition and flash

back

Special protection

equipment for firefighters: Wear full protective clofhing. Wear self-contained breathing apparatus.

Hazardous decomposition products: Hazardous combustion products may include intense heat, dense black

smoke, carbon monoxide, carbon dioxide.

SECTION 6 Accidental Release Measures

Step to be taken in case Shut off all ignition sources.

material is released or Contain the spill or leak.

spilled: Scrape up with rag and place in container.

SECTION 7 Handly And Storage

Handling: Handle and open container with care. Avoid dust formation and ignition

sources. Ensure good local exhaust ventilation. Avoid breathing vapors.

Storage: Keep in a cool and dry and well-ventilated place. Store in the original

container securely closed. Use with adequate ventilation.

Avoid contact with eyes and skin.

Avoid contact with water or moisture.

Static electricity may accumulate and cause a fire hazard.

Keep out of reach of children.

----- Information about the emptied container -----

Do not re-use this container.

This container will be very hazardous when emptied.

Residues will be explosive or flammable.

Keep away from heat , sparks and flame.

Do not puncture or cut this container , and do not weld on or near this container.

container.

SECTION 8 Exposure Controls, Personal Protection

Exposure guidelines: ACGIH TLV - TWA: 200ppm; STEL 250ppm(SKIN),

OSHA PEL: 8H TWA 200ppm [Methanol; decomposed product]

Technical measures /

Precautions: No special precautions required.

Respiratory protection: Effective dust mask Hand protection: Protective gloves

Eye protection: Suitable goggles of face protetion

Skin and body protection: Working clothes, Closed footwear

Other protective clothing Safety shower and eyewash equipment

or equipment: Keep away from heat, sparks and flame.

Avoid prolonged breathing vapor.

Work/hygienic practices: Avoid contact with eyes and skin.

Wash hands and gargle after handling.



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SECTION 9 Physical And Chemical Properties

Physical State: Liquid

Color: Clear, Colorless liquid
Odor: Slight faint odor
Melting point: Not applicable
Boiling point: Not applicable
Flash point: -9~4°C(Closed cup)

Ignition temperature: Not applicable Specific gravity: 0.91~0.98 Water solubility 20°C: Not applicable Vapor pressure 20°C: 65-91 mmHg

Partition coefficient

Log Pow 20 - 25°C: Not applicable

Density: 2.58 g / cm³

SECTION 10 Stability And Reactivity

Stability: Stable

Condition to avoid: Strong Base, Acid, Water Materials to avoid: Strong Base, Acid, Water

Hazardous decomposition

or by-products: Methanol, Ethanol, Butyl alcohol (Easy to inflame).

Hazardous

Polymerization: Hazardous polymerization will not occur.

SECTION 11 Toxicological Information

Acute toxicity (LD50): LD50 (Oral / Big mouse): 18-20 ml / 4h

LD50(eat / Big mouse): 5,525 mg / kg (Decomposition: Methanol) LD50(Oral / Rat): 71000ppm / 4hr (Decomposition: Methanol)

SECTION 12 Ecological Information

No information is available

SECTION 13 Disposal Considerations

Waste from residues Can be burned in chemical incinerator equipped with afterburner and / un-used products: scrubber but exert extra care in igniting as this product is very flammable.

Do not dispose of the/emptied container unless the contents have been completely removed and container has been flushed with a clean neutral

solvent and then dried up.

Do not dispose the emptied container unlawfully. Observe all federal , state , and local laws.

Contaminated packaging: Dispose of as unused product.

SECTION 14 Transport Information

UN number: UN 1993

Transport hazard class: Flammable Liquids / Class 3

Packaging group: II

Proper shipping name: Flammable Liquids, N.O.S

Technical shipping name: Organo - Siloxane

Marine pollutant: None

SECTION 15 Regulatory Information

Data not available.



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SECTION 16

Additional Information

Prepared by:

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The Safety data Sheet is Prepared based on a limited source of our company's data and available references. This product should be Stored, handled and used in accordance With good industrial by

references. This product should be Stored , handled and used in accordance With good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It Should not therefore be Construed as guaranteeing suaranteeing specific properties.

