

PRODUCT NAME:



MSDS REPORT

1. Product and Company Identification

Product name : SmartCoat
Company name: Titanium World Technology Sdn Bhd (1032758-D)
Address : 16-1, Jalan Jalil Jaya 6, Block 5, Bukit Jalil. 57000. Kuala Lumpur
Telephone : + 03-8993 9762
Fax : +0377813816
Email : info@smartcoat.com.my
Emergency call : +6012-283 4298

2. Composition and Ingredient Information

Category as a single product/mixture : Mixture

Chemical	Chemical formula	Content (wt%)
Nano Titanium dioxide	Nano Ti O ₂	(+/-)0.25%
Isopropanol Alcohol	C ₃ H ₈ O	0.5%
Water	H ₂ O	(+/-)99.25%

Nano TiO₂: Nano Titanium Dioxide

CAS No: 13463-67-7

3. Hazard Identification

Potential chronic health effect

The liquid nano tio₂ is bonded to surfaces of treated areas and therefore, no particles will be emitted in the air. Inhalation is not possible and skin contact is also not possible. Residual test of food materials on SmartCoat treated surfaces has been done with negative detection of any tio₂ on the subject tested.

Danger information

Safety : Stable under normal condition

Reactivity : no hazardous material

Balefulness information

Acute toxicity : None

Balefulness : None

Environmental influence : None

TITANIUM WORLD TECHNOLOGY
SDN BHD (1032758-D)

No.16, Jalan Jalil Jaya 6
Block 5, Bukit Jalil
57000 Kuala Lumpur
Malaysia

T: +603 8993 9762
F: +603 7781 3816
E: info@smartcoat.com.my
B: smartcoat.wordpress.com
W: www.smartcoat.com.my



Physical and chemical danger

Stable under normal handling situations

Potential Health Effect

Skin contact : will not irritation and redness with small amount.

Eye contact : will not cause irritation or reddening with small amount.

Inhalation : will not cause irritation to the respiratory skin

Ingestion : Not expected to be a health hazard via ingestion

Swallowed : Not harmful if swallowed

Chronic exposure : Long-term exposure to SmartCoat treated surface will not harm our skin as the nano tio2 only effective against micro organics.

Aggravation of pre-existing conditions : Person with pre-existing lung disease MAY be more susceptible to the effect of this substance.

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. Clean nose with water and gargle to dean throat by clean water. If not breathing, give artificial respiration. Get medical attention for any breathing difficulty.

In case of skin contact

Wash off with soap and plenty of water. Get medical attention if irritation develops.

In case of eye contact

Flush eyes with water as a precaution. Get medical attention if irritation persists.

If swallowed

Do NOT induce vomiting. Rinse mouth with water. Gargle with clean water and drink clean water. Never give anything by mouth to an unconscious person. Get medical advice if symptoms appear.

5. Fire

Flammability : None

6. Accidental Release Measures

Personal precautions



No particular treatment. Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Ventilate area of leak or spill. Wash out with water.

7. Handling and Storage

Precautions for safe handling

Avoid contact with skin and eye

Conditions for safe storage

Keep in a tightly closed container, stored in a cool, dry ventilated area, and avoid direct sunlight and rainwater.

8. Attention when disposing the product

No particular treatment needed

9. Protection measures/Personal protection

Tools for protection : When it is scattered in the form of a mist during application of the product, it is desirable to wear a gauze mask and protective glasses for protection.

Protective clothes : Unnecessary for application

Protective gloves : Unnecessary for application

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Skin and body protection:

Wear protective gloves and clean body-covering clothing.

Eye protection:

Use chemical safety goggles and/or full-face shield where dusting or splashing of solution is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

10. Physical and chemical properties

Appearance

Appearance : Liquid

Color : Colorless

Safety data

Boiling point : 100 °C

Melting point : - °C

Specific gravity : 1.0 (at 20 degrees Celsius)

Solubility : It dissolves easily when water or acid is added – any proportion

pH : 1.3 – 1.5 at liquid state, when applied and dried, only nano tio₂ will be available on surfaces

Ignition temperature : no data available

11. Stability and Reactivity

Chemical stability

Stable under recommended storage conditions.

Materials to avoid

Violent or incandescent reaction may also occur with other metals such as aluminum, calcium, magnesium, potassium, sodium, zinc as well as lithium.

Hazardous Decomposition Products

No information found.

Hazardous polymerization

Will not occur.

12. Toxicological Information

Non

13. Ecological Information

No negative effects are known.

14. Transport Information

No Hazardous



15. Other Information

Label Precautions:

Avoid contact with eyes and skin.

Washing thoroughly after handling.

Avoid breathing mist.

Keep container closed.

Use with adequate ventilation.

Label First Aid:

In case of contact, flush eyes or skin with clean water. Get medical attention if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.