

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat

according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0



Section 1 - Product and Company Identification

1.1 Product identifier

Amazon Listing Title: TiCoat® Surface Protect™ Topcoat

Physical State: Liquid

Product Form: Mixture

**Others Name of Identification/
Synonyms:** Not Available

1.2 Recommended use and restrictions on use

Relevant uses Photocatalytic Surface Coating -Industrial Use Only

1.3 Details of the supplier of the safety data sheet

Product Manufacturer/Supplier:

Name: TICOAT, INC.

Address: 449 Boston Post Rd, Unit B, North Windham, CT 06256

Email: contactus@ticoat.com

Tel: +1 (833) 484-2628

1.4 Emergency telephone number:

Emergency telephone number: ChemTel LLC
+1 (800) 255-3924 (North America)
+1 (813) 248-0585 (International)

Section 2 - Hazards Identification

2.1. Classification of the substance or mixture

Classification according to GHS

Not classified as hazardous.

2.2. Label elements

Labelling according to GHS

Hazard pictograms : Not required

Signal word : Not required

Hazardous ingredients : Not required

Hazard statements: Not required

Precautionary statements:

P202-Do not handle until all safety precautions have been read and understood.
P264-Wash face, hands and any exposed skin thoroughly after handling.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P342 + P311-If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P332 + P313-If skin irritation occurs: Get medical advice/ attention.
P337 + P313-If eye irritation persists: Get medical advice/ attention.
P402 + P404-Store in a dry place. Store in a closed container.
P501-Dispose of contents/container to an approved landfill/ incineration plant/waste disposal plant.

2.3 Hazards not otherwise classified (HNOC)

None identified

Section 3 - Composition / Information on Ingredients

3.1. Substances: Not applicable

3.2. Mixtures:

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat



according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0

Name	Product identifier (CAS RN)	Conc. (%)	GHS Classification
Hydrated titanium dioxide (Anatase TiO ₂ bound in stable aqueous product matrix)	12214-43-6	1	Not Classified
Water	7732-18-5	99	Not Classified

*Full text of Hazard Statements: see section 16

Section 4 - First Aid Measures

4.1. Description of first aid measures

First-aid General:

Show this safety data sheet to the doctor in attendance. Get immediate medical advice/attention if required.

First-aid after inhalation:

Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, call a physician.

First-aid after skin contact:

Wash skin with plenty of water. Soap may be used. Take off contaminated clothing. Wash clothing before reuse. Clean shoes thoroughly before reus. If skin irritation occurs: Get medical advice/attention.

First-aid after eye contact:

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available

First-aid after swallowing:

If accidentally swallow, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects:

Symptoms of overexposure may be nausea and vomiting. The important known symptoms and effects are described in the section 2.2.

Symptoms/effects after inhalation:

Prolonged exposure may cause irritation.

Symptoms/effects after skin contact:

Prolonged exposure may cause skin irritation.

Symptoms/effects after eye contact:

Direct eye contact may cause slight redness.

Symptoms/effects after ingestion:

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment if needed

Treat symptomatically.

Section 5 - Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water Spray: yes | Foam: Yes | Halon: Yes | Carbon Dioxide: Yes | Dry Chemical: Yes

Unsuitable extinguishing media: Not Available

5.2. Specific hazards developing from the chemical

Product is not flammable.

5.3. Special protective equipment and precautions for firefighters

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat

according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0



In case of fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Fire-fighting equipment/instructions:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if you can do so without risk. No action shall be taken involving any personal risk or without suitable training.

5.4. Precautions for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus (SCBA). Complete protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General: Do not breathe mist, spray. Do not get in eyes, on skin, or on clothing. Wear appropriate respirator when ventilation is inadequate. Wear protective equipment. Keep unprotected persons away. Protect from slipping if on floor. Put on appropriate personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.

For non-emergency personnel:

Protect from slipping if on floor. Put on appropriate personal protective equipment.

For emergency responders:

Evacuate unnecessary personnel. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. See also the information in "For nonemergency personnel". See protective measures under Section 7 and 8.

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to reach sewage system or any water course or ground water.

6.3. Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Clean up spills immediately and dispose of waste safely. Absorb liquid components with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer spilled material to a suitable container for disposal. Contact competent authorities after a large spill.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

7.1. Precautions for safe handling

Protective measures:

As supplied, product is a liquid. If dried, hazardous product dusts may occur. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust, mist, spray. Use personal protective equipment as required (see section 8).

Advice on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety procedures. Avoid contacting eyes. Avoid breathing vapor, contacting liquid. User should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat



according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0

Store in a well-ventilated and dry place at room temperature. Keep away from acids, oxidizing agent and ignition sources and direct sunlight. Keep away from food, drink and animal feeding dishes. KEEP OUT OF REACH OF CHILDREN. Keep container closed when not in use.

7.3 Specific end use(s)

Use as directed

Section 8 - Exposure Controls / Personal Protection

8.1. Control parameters:

Occupational exposure limits: No Data Available

Biological exposure Indices (BEI): No Data Available

8.2 Exposure controls

Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Use personal protective equipment to control the exposure (see section 8). Wash hands before breaks and at the end of workday.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

8.3. Individual protection measures/Personal protective equipment

Hygiene measures:

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection:

Hand protection recommended while handling product.

Eye/face protection:

Eye and face protection recommended while handling product.

Skin and body protection:

Skin protection recommended at workplace while handling product

Respiratory protection:

Recommended use of N95 mask or better for protection during application.

Personal protective equipment symbol(s):



8.4. Environmental exposure controls:

Prevent product from entering drains.

Collect spillage.

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	Translucent yellowish- white liquid
Physical state	:	Liquid
Colour	:	Yellowish-white (Translucent)
Odor	:	Not determined
pH	:	7
pH solution	:	No Data Available
Relative evaporation rate	:	No Data Available

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat



according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0

Melting point	:	No Data Available
Freezing point	:	No Data Available
Boiling point	:	No Data Available
Flash point	:	No Data Available
Evaporation rate	:	No Data Available
Auto-ignition temperature	:	No Data Available
Decomposition temperature	:	No Data Available
Vapor pressure	:	No Data Available
Vapor density	:	No Data Available
Relative Density	:	1
Solubility	:	Soluble
Viscosity, kinematic	:	No Data Available
Explosive properties:	:	No Explosion Hazard
Lower explosive limit (LEL)	:	Not Applicable
Upper explosive limit (UEL)	:	Not Applicable
Flammability	:	Non Flammable
9.2 Other information		
VOC content	:	No Data Available

Section 10 - Stability and Reactivity

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6 Hazardous decomposition products

None expected under normal conditions of use.

Section 11 - Toxicological Information

11.1. Information on toxicological effects

Toxicology data for the components/mixture

No Data Available

Acute toxicity (oral):

Not classified.

Acute toxicity (dermal) :

Not classified.

Acute toxicity (inhalation):

Not classified.

Toxicology data for the components/mixture

No Data Available

Skin corrosion/irritation:

Not classified.

Serious eye damage/irritation:

Not classified.

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat

according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0



Respiratory or skin sensitization:

Not classified.

Germ cell mutagenicity:

Not Classified

Carcinogenicity:

Not Classified

Reproductive toxicity:

Not Classified.

STOT-single exposure:

Not Classified.

STOT-repeated exposure:

Not Classified.

Aspiration hazard:

Not Classified.

Section 12 - Ecological Information

12.1 Toxicity

Ecotoxicity data for the components/mixture

No data available

Acute aquatic toxicity:

Not classified

Chronic aquatic toxicity:

Not classified

12.2 Persistence and degradability

Inorganic product which cannot be eliminated from water by biological purification processes.

12.3 Bioaccumulative potential

Not established

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Avoid release to the environment.

Section 13 - Disposal Considerations

13.1. Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid disposing into drainage systems and into the environment. Do not dispose of waste into sewer. Empty containers may be recycled after cleaning.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 - Transport Information

14.1 UN number:

The Product is not regulated as a dangerous goods for transportation.

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat

according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0



14.2 UN proper shipping name:

The Product is not regulated as a dangerous goods for transportation.

14.3 Transport hazard class(es):

The Product is not regulated as a dangerous goods for transportation.

14.4 Packaging group:

The Product is not regulated as a dangerous goods for transportation.

14.5 Environmental hazards:

The Product is not regulated as a dangerous goods for transportation.

14.6 Special precautions for user

The product is not regulated as dangerous goods according to regulation DOT, IMDG, IATA and ADR/RID

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA-Regulations: OSHA HCS (29 CFR 1910.1200(g))

U.S. Federal Regulations:

SARA 311/312 Hazard Categories

Physical Hazard	Health Hazard
Not Classified	Not Classified

TSCA Components:

One or more substances in this product are not listed on the US TSCA Inventory (United States).

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

Section 16 - Other Information

Full text of H- and EUH-statements:

None

Abbreviations and acronyms:

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
IC50	Concentration causing 50% blockade
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level

Safety Data Sheet

TiCoat® Surface Protect™ Topcoat



according to OSHA HazCom 2012

Date of issue: 19-Nov-2021 Revision date: 19-Nov-2021 Version: 1.0

NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PNEC	Predicted no-effect concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and very Bioaccumulative
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	United Nations; Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
WGK	Water Hazard Class
CWA	Clean Air Act
SARA	Superfund Amendments and Reauthorization Act
CAA	Clean Air Act
STOT RE	Specific Target Organ Toxicity - Repeated Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure
log Kow	Octanol-water partition coefficient

Statement:

The information in this safety data sheet is to the best of our current knowledge true and accurate. It does not represent any guarantee of the properties, data, instructions, recommendations and/or suggestions of the product.

The Employer and User should make their own responsibility for investigations to determine the suitability of the information for their particular purposes. The Company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.