



Safety Data Sheet

DryWired® LumActiv Indoor

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **DryWired® LumActiv Indoor**
Recommended Use: Photocatalytic water-based coating optimized for visible light exposure
Supplier: DryWired®
Address: 9606 S. Santa Monica Blvd, PH
Beverly Hills, CA 90210
Phone: 1-800-581-4528
Revised On: 09/01/16
Emergency Phone: US: 1-800-535-5053, International: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Hazard classification: Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.
GHS Label elements: Not classified as a hazardous substance or mixture.
Hazards not otherwise classified: None.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Ingredient	CAS No.	Weight %
Titanium Dioxide	13463-67-7	0.01-0.89
Peroxititanium acid	Proprietary	0.01-0.89
Water	7732-18-5	99.1-99.2

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: Provide fresh air. Seek medical attention if necessary.

Skin Contact: Remove contaminated clothing and shoes. Wash with plenty of soap and water. Seek medical attention if necessary.

Eye Contact: Flush eyes with water. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if necessary.

Ingestion: Wash out mouth. Seek medical attention if necessary. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment required: No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Non-flammable.

Special Hazards Arising from the Substance or Mixture: None known.

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further Information: No further information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel precautions: Use personal protective equipment.

Environmental precautions: Prevent further leakage or spillage if spilled. Keep out of drains, waterways, and soil.

Methods for cleaning spills: Collect in a container appropriate for storage/disposal.

Reference to other sections: For disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Wear appropriate personal protective equipment. Avoid inhalation of vapour or mist.

Conditions for Safe Storage, Including Incompatibilities: The product should be stored in a cool and dark place. Do not allow solution to freeze. Recommended storage between 5-25°C. Do not store in direct sunlight, light sensitive.

Specific End Uses: None other than that mentioned in section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Components with workplace control parameters:

Titanium Dioxide	13463-67-7	TWA	10 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	15 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.
		Lower Respiratory Tract irritation: Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC). Not classifiable as a human carcinogen. Potential Occupational Carcinogen: See appendix A.		
		PEL	10 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	5 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Exposure Control:

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment:

Eye/face protection: It is recommended to use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: It is recommended to 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.

Body Protection: Choose body protection in relation to the concentration and amount of substance, and to the workplace.

Respiratory protection: Respiratory protection is not required. Where risk assessment shows respiratory protection is necessary, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish Transparent Liquid	Odour:	Weak to none
Odour Threshold:	No data available.	pH:	7.0 – 9.0
Melting Point/Freezing Point:	0°C	Initial Boiling Point/Boiling Point Range:	100°C
Flash Point:	Not applicable.	Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable.	Upper/Lower Flammability of Explosive Limits:	Not applicable.
Vapour Pressure:	3.25 kPa at 25°C (Water)	Vapour Density:	No data available.
Relative Density:	1.00 at 25°C	Solubility:	Soluble.
Partition Coefficient: n-octanol & water:	No data available.	Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.	Viscosity:	< 12 mPa-s

Other Information: No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Do not allow product to freeze. Do not store in direct sunlight.

Incompatible materials: Strong acids.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions: Titanium/titanium oxides. Other decomposition products: No data available. In the event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:



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Acute toxicity: Based on literature of 100% by wt Titanium dioxide, CAS 13463-67-7: LD50 Oral - Rat - > 10,000 mg/kg
Inhalation: No data available. LD50 Dermal - Rabbit - > 10,000 mg/kg No data available

Skin corrosion/irritation: Based on literature of 100% by wt Titanium dioxide, CAS 13463-67-7: Skin - Human Result: Mild skin irritation - 3 h.

Serious eye damage/eye irritation: Based on literature of 100% by wt Titanium dioxide, CAS 13463-67-7: Eyes - Rabbit. Result: No eye irritation.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: Based on literature of 100% by wt Titanium dioxide, CAS 13463-67-7: Hamster, ovary, Micronucleus test. Hamster, Lungs, DNA inhibition. Hamster, ovary, Sister chromatid exchange. Mouse, Micronucleus test.

Carcinogenicity: Based on literature of 100% by wt Titanium dioxide, CAS 13463-67-7: Rat - Inhalation Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Carcinogenicity - Rat - Intramuscular Tumorigenic: Neoplastic by RTECS criteria. Blood: Lymphomas including Hodgkin's disease. Tumorigenic: Tumors at site or application.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available.

Specific target organ toxicity - single exposure: No data available..

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: No data available.

Additional Information: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL & ECOTOXICOLOGICAL INFORMATION

Toxicity:

Toxicity to Fish: Titanium dioxide, CAS 13463-67-7, LC50 - other fish - > 1,000 mg/l - 96 h.

Toxicity to daphnia and other aquatic invertebrates: Titanium dioxide, CAS 13463-67-7, EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h; EC0 - Daphnia magna (Water flea) - 1,000 mg/l - 48 h.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Should be taken to an authorized industrial waste handler.

Uncleaned Packaging: Recommendation: Dispose of as unused product according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Not regulated for transport by DOT (US), IMDG, or IATA.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. DryWired® transportation classifications are based on product formulation, packaging, DryWired® policies and DryWired® understanding of applicable current regulations. DryWired® does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original DryWired® package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

SECTION 15: REGULATORY INFORMATION



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International Regulations: Contact DryWired® for more information.

US Federal Regulations: Contact DryWired® for more information.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Section 311/312 Hazards: No SARA hazards.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

State Regulations: Contact DryWired® for more information.

Massachusetts Right To Know Components: Titanium dioxide, CAS-No. 13463-67-7, Revision Date 1994-04-01.

Pennsylvania Right To Know Components: Titanium dioxide, CAS-No. 13463-67-7, Revision Date 1994-04-01.

New Jersey Right To Know Components: Titanium dioxide, CAS-No. 13463-67-7, Revision Date 1994-04-01; Water CAS-No. 7732-18-5, Revision Date -.

California Proposition 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Inventories: The components of this product are in compliance with the chemical notification requirements of TSCA.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. DRYWIRED® MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a DryWired® product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired® product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.