

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : **Daniel Smith Watercolors, Half
Pans, Sticks:
Titanium White, Buff Titanium,
Gray Titanium**

Product Code(s) : Daniel Smith Extra Fine Watercolors

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Artistic Painting
Use pattern: Consumer use
Restrictions on use Keep out of reach of children.

1.3 Details of the supplier of the safety data sheet:

JJC Industries LLC

4150 1st Avenue South
P.O. Box 84268
Seattle, WA, USA
98134-2302

Telephone : 001 (206) 223 9599

1.4 Emergency Telephone Number

: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887
(Outside U.S.).
Poisons Information Centre
+33 (01) 45 42 59 59 [ORFILA (INRS) - France
+46 104566750Sweden

1.5 National Contact

: John.cogley@danielsmith.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Paste white /grey. Neutral odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS. Avoid release to the environment.

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008. The ingredients listed in Section 3 are encapsulated within the matrix, therefore, no exposure to these materials is expected during proper use/handling of this product.

EUH210 - Safety data sheet available on request.

2.2 Label elements

Hazard pictogram(s)

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None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

EUH210 - Safety data sheet available on request.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May cause mild respiratory irritation at higher temperatures. May cause gastrointestinal irritation.

PBT assessment:

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature Titanium dioxide The ingredients listed are encapsulated within the matrix, therefore, no exposure to these materials is expected during proper use/handling of this product.

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL M-factor, ATE
Titanium Dioxide	13463-67-7	236-675-5	Present	1.0 - 10.0	Carc. 2; H351 Notes: V, W, 10	Not applicable.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. If irritation or symptoms develop, seek medical attention.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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Eye contact : Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists: get medical advice/attention.

4.1.2 Self-protection for the first aider

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Direct eye contact may cause temporary redness.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

: Not considered flammable. However, may burn if exposed to extreme heat and flame. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Keep people away from and upwind of spill/leak. Wear appropriate protective equipment. Restrict access to area until completion of clean-up.

6.2 Environmental precautions

: Avoid release to the environment. Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Keep in properly labelled containers. Contact the proper local authorities.

6.4 Reference to other sections

: Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Provide adequate ventilation. Wear suitable protective equipment during handling. Wear respiratory protection. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

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- : Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles. Store away from incompatible materials (see Section 10 of the SDS).

7.3 Specific end use(s) : Artistic Painting

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Titanium Dioxide	10 mg/m ³ (TWA)	France (OEL)	None.
	5 mg/m ³ (Total dust) (TWA)	Sweden (OEL)	None.
	10 mg/m ³ (inhalable); 4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

- : Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : None required under normal conditions.

Skin protection : None required under normal conditions. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection : None required under normal conditions.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : paste
Colour : grey /white

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Odour : neutral
Odour threshold : No information available.
pH : 6-8
Flash point : No information available.
Flashpoint (Method) : No information available.
Lower flammable limit (% by vol.)
: No information available.
Upper flammable limit (% by vol.)
: No information available.
Auto-ignition temperature
: No information available.
Decomposition temperature
: No information available.
Oxidizing properties : None known.
Explosive properties : Not explosive
Initial boiling point and boiling range
: >100°C
Melting/Freezing point : Freezing point <0°C
Relative density : 1.1-2.0
Solubility in water : Soluble
Other solubility(ies) : No information available.
Vapour pressure : No information available.
Vapour density : No information available.
Partition coefficient: n-octanol/water
: No information available.
Viscosity : No information available.
Evaporation rate (BuAe = 1)
: No information available.
Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : No information available.
Volatile organic Compounds (VOC's)
: No information available.
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.
10.2 Chemical stability : Stable under normal conditions.
10.3 Possibility of hazardous reactions
: Hazardous polymerization does not occur.
10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
10.5 Incompatible materials
: Strong oxidizing agents
10.6 Hazardous decomposition products
: None known.
In the event of fire the following can be released: Carbon oxides; Metal oxides

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
- Skin corrosion/Irritation** : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.
- Serious eye damage/irritation** : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
- Respiratory or skin sensitisation** : According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
- Germ cell mutagenicity** : According to the classification criteria of the European Union, the product is not considered as being a germ cell mutagen.
- Carcinogenicity** : Not classifiable as a human carcinogen. Contains Titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B). However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use, Titanium dioxide cannot become airborne. The carcinogenic effects of Titanium dioxide are therefore not applicable to this product.
- Reproductive toxicity** : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.
- STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Eye contact; Skin contact; Inhalation; Ingestion
- Effects of acute exposure** : Inhalation: Mild respiratory irritant

Skin contact: Direct skin contact may cause slight or mild, transient irritation.

Eye contact: Direct eye contact may cause slight or mild, transient irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects

- : None known or reported by the manufacturer.

Information on other Hazards

- : None known or reported by the manufacturer.

11.1.1 Acute Toxicity

- Toxicological data** : Not classified for acute toxicity based on available data. No data is available on the product itself. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Titanium Dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : Should not be released into the environment. Avoid release to the environment.
See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Titanium Dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Titanium Dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Titanium Dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.

12.2 Persistence and degradability : The product itself has not been tested.

12.3 Bioaccumulation potential : The product itself has not been tested. See the following data for ingredient information.

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment : This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties : None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information : None known.

SECTION 13. DISPOSAL CONSIDERATIONS




13.1 Waste Treatment Methods:

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- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.
Empty containers retain residue and can be dangerous. Follow labeled warnings even after container is emptied.
- Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION

<i>Regulatory Information</i>	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	<i>Label</i>
ADR/RID	None.	not regulated	not regulated	none	
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

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

: Not applicable.

SECTION 15. REGULATORY INFORMATION

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

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- : Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended :None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work: None of the components are specifically listed.

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

- : A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend

- : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
EC: European Community
EC50: Effective Concentration 50%
ECHA: European Chemicals Agency
EEC: European Economic Community
EN: European Standard
EU: European Union
HSDB: Hazardous Substances Data Bank
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
SCBA: Self-Contained Breathing Apparatus
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

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Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2019 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Agency, Classification Legislation, 2019.
4. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

Preparation Date (dd/mm/yyyy)
: 6/12/2023

Regulation and Procedure :

not regulated ;Expert judgement

H-phrases (full-text)

H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

EUH210 - Safety data sheet available on request.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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