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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Daniel Smith Extra Fine Watercolors**
Nickel Azo Yellow
Nickel Titanate Yellow

Other means of identification : Daniel Smith Extra Fine Watercolors

Recommended use of the chemical and restrictions on use

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

Chemical family : Mixture

Name, address, and telephone number of the supplier:

JJC Industries LLC

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

Supplier's Telephone # : (206) 223 9599

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Paste-yellow.Neutral Odor.

Most important hazards:
May cause an allergic skin reaction. May cause cancer. 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.See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Skin sensitization - Category 1
Carcinogenicity - Category 2

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

Hazard statement(s)

May cause an allergic skin reaction.
Suspected of causing cancer.

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Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe fumes or vapors.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.

Store locked up.
Dispose of contents/container in accordance with local regulation.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	CI Pigment Yellow	68511-62-6	**2.0 - 10.0**
Nickel Antimony Titanium Rutile	Pigment Yellow 53	8007-18-9	**2.0 - 10.0**

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

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 exposed or concerned: Get medical advice/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 experiencing respiratory symptoms call a poison center or doctor.

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.

Eye contact : Rinse immediately with plenty of water, also under the eyelids. IF exposed or concerned: Get medical attention/advice.

Most important symptoms and effects, both acute and delayed

: May cause cancer. May cause mild respiratory irritation at higher temperatures.May cause coughing and breathing difficulties.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause temporary redness.
Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

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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.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not considered flammable. However, may burn if exposed to extreme heat and flame. Burning produces obnoxious and toxic fumes.

Flammability classification (OSHA 29 CFR 1910.106)

: Not considered flammable.

Hazardous combustion products

: Carbon oxides; Metal oxides

Special protective equipment and precautions 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

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.

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

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 airbourne dust. Keep in properly labelled containers. Contact the proper local authorities.

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): (100 lbs / 45.4 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.
Provide adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. 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 away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage : Store in cool/well-ventilated place. Store locked up. 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).

Incompatible materials : Strong oxidizing agents; Strong acids; Strong bases; Reducing agents

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	N/Av	N/Av	N/Av	N/Av
Nickel Antimony Titanium Rutile	N/Av	N/Av	N/Av	N/Av

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 : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection : Wear protective gloves/clothing. Advice should be sought from glove suppliers.

Eye / face protection : Wear eye/face protection.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Odour : neutral

Odour threshold : No information available.

pH : 6-8

Melting Point/Freezing point : Freezing point <0°C

Initial boiling point and boiling range
: >100°C

Flash point : No information available.

Flashpoint (Method) : No information available.

Evaporation rate (BuAe = 1) : No information available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)
: No information available.

Upper flammable limit (% by vol.)
: No information available.

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : No information available.

Vapour density : No information available.

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Relative density / Specific gravity
: 1.1-2.0

Solubility in water : Soluble

Other solubility(ies) : No information available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: No information available.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Viscosity : No information available.

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)
: No information available.

Absolute pressure of container
: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions
: Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials : Acids: Strong oxidizing agents; Bases; Reducing agents.

Hazardous decomposition products
: None known.
In the event of fire the following can be released: Carbon oxides; Metal oxides; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
: Mild respiratory irritant

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

Sign and symptoms skin : Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes : Direct eye contact may cause slight or mild, transient irritation.

Potential Chronic Health Effects
: None known or reported by the manufacturer.

Mutagenicity : Not expected to be mutagenic.

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Carcinogenicity : Carcinogenicity - Category 2. Suspected of causing cancer.
Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing. Contains: Nickel; Nickel is suspected of causing cancer.

Reproductive effects & Teratogenicity
: Not expected to cause reproductive effects.

Sensitization to material : Skin sensitization- Category 1.May cause an allergic skin reaction.
May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. Contains: Nickel

Specific target organ effects : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure
: None known or reported by the manufacturer.

Synergistic materials : None known or reported by the manufacturer.

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.

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	N/Av	N/Av	N/Av
Nickel Antimony Titanium Rutile	N/Av	N/Av	N/Av

Other important toxicological hazards
: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Avoid release to the environment. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	N/Av	N/Av	None.

Ingredients	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	N/Av	N/Av	None.

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Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	N/Av	N/Av	None.

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

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

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes (CAS 68511-62-6)	N/Av	N/Av

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

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.

SECTION 13. DISPOSAL CONSIDERATIONS

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 in accordance with all applicable federal, state, territory and local regulations.

RCRA : Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method. If these products, as supplied, become waste in the United States, they may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	Not regulated unless shipped in quantities in one package that equal or exceed the reportable quantity = 100 lbs				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

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.

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

: Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	Yes	N/Ap	N/Av	No	N/Ap
Nickel Antimony Titanium Rutile	8007-18-9	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:Skin sensitization;Carcinogenicity.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	Yes	Cancer	No	No	No	No	No	No
Nickel Antimony Titanium Rutile	8007-18-9	Yes	Cancer	No	No	No	No	No	No

Canadian Information:
All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	270-944-8	Present	Present	(5)-5820	KE-25822	Present	Listed
Nickel Antimony Titanium Rutile	8007-18-9	232-353-3	Present	Present	(1)-558; (1)-543; (1)-517	KE-08034	Present	Listed

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy) : 11/23/2021

Other special considerations for handling : Provide adequate information, instruction and training for operators.

Prepared for: JJC Industries LLC 4150 1st Avenue South P.O. Box 84268 Seattle, WA 98134-2302 Telephone: 206 233 9599	
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	

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