

MATERIAL SAFETY DATA SHEET
Utrecht Studio Series Tempera



MSDS
Date: November 7, 2014

Information: 800-223-9132
or: 609-409-8001

Section 1 – Company and Product Identification

Utrecht Art Supply
6 Corporate Drive
Cranbury, NJ 08512

Product Line: Utrecht Studio Series Tempera Colors
(Container sizes: 2 oz, 8 oz, pint and gallon).
61985 Utrecht Studio Series Tempera 2 oz 6 Color Set
61986 Utrecht Studio Series Tempera 2 oz 12 Color Set
61987 Utrecht Studio Series Tempera 8 oz 6 Color Set

See Appendix A for individual Utrecht Studio Series Tempera Colors pigments and their associated toxicity.

Section 2 – Hazard Identification (composition / information on ingredients)

General statement of toxicity

Tempera paints generally are not harmful when in contact with the skin.

Formulation overview

Utrecht Studio Series Tempera Colors are formulated with pigment, water, calcium carbonate, acrylic thickener, preservative, and other proprietary components.

Toxicity associated with pigments

Pigment toxicity reflects individual chemical components. These are noted in Appendix A.

¹ ACMI: The Art & Creative Material Institute, Inc. PO Box 479, Hanson, MA 02341



Material Safety Data Sheet – Studio Series Tempera Colors, November 7, 2014.

Section 3 – Hazardous Component Information (hazard identification)

Appendix A lists Utrecht Studio Series Tempera Colors pigments. Toxicity reflects inherent hazards of each component hazards along with its estimated exposures. The Risk Characterization for each paint product is noted in the preamble to Appendix A. In general, there is very low risk of toxicity from skin exposure.

Section 4 – First Aid Measures

For overexposure due to accidental ingestion or inhalation, treat symptomatically. Adverse effects from incidental skin exposure are not expected.

Inhalation	If person is showing adverse effects, remove person to fresh air. Seek medical help if recovery is not immediate.
Ingestion	Treat symptomatically; do not induce vomiting; seek medical help.
Skin Contact	Wash skin with soap and water or use a product specially formulated for water-based paint removal.
Eye Contact	Flush eyes for up to 15 minutes with water; if irritation persists, seek medical help.

Section 5 – Fire Fighting Measures

Flash point, °C:	NA
Auto-ignition Temperature:	NA
Lower explosive limit:	NA
Upper explosive limit:	NA
Extinguishing media:	NA

Section 6 – Accidental Release Measures

It is not expected that the container sizes, (other than 1 gallon), would result in a spill commensurate with the definition of ‘accidental release.’

Spill Procedure:	For minor spills, mop up with rags & dispose of. For larger quantities, contain spills with sand and transfer to containers for normal disposal. Contact local waste disposal authority for disposal advice.
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Material Safety Data Sheet – Studio Series Tempera Colors, November 7, 2014.

Section 7 – Handling and Storage

Store at room temperature. Keep from freezing.
Recommended storage conditions are between 1° C and 50° C.
Wash hands after use.
Avoid eye contact.

Section 8 – Exposure Control/Personal Protection

Normal usage of tempera paints does not require special Personal Protection Equipment, (PPE).

Section 9 – Physical/Chemical Properties

Utrecht Studio Series Tempera Colors are water-based formulations incorporating a variety of pigments, (see Appendix A).

Section 10 – Stability and Reactivity

Tempera paints are considered stable and non-reactive.

Section 11 – Toxicology Information

Utrecht Studio Series Tempera Colors generally have very low toxicity. Appendix A lists the Utrecht Studio Series Tempera Colors and their associated toxicity determined by risk characterization. In general, these paints are considered non-toxic at the anticipated levels of exposure, (i.e., skin exposure, generally restricted to the hands).

Section 12 – Ecological Information

Toxicity to animals, fish and insects is not available.

Data on persistence, bioaccumulation potential and mobility in soil is not available.



Material Safety Data Sheet – Studio Series Tempera Colors, November 7, 2014.

Section 13 – Disposal Considerations

Under typical use situations, tempera paints should be disposed of using normal disposal methods. Contact local waste disposal authority for disposal advice.

Section 14 – Transport Information

No restrictive Department of Transportation requirements; not hazardous for shipping.

Section 15 – Regulatory Information

Regulated by the US Consumer Product Safety Commission for chronic hazards under Labeling of Hazardous Art Materials Act, (LHAMA), codified at 16 C.F.R. § 1500.14(b)(8), which requires that art materials be properly labeled if they present a chronic adverse health effect.

Product labeling conforms to ASTM 4236.

Section 16 – Other Information

This product does not contain egg, dairy, wheat, gluten, soy or peanut products, by-products or derivatives.

This product does not contain latex materials or animal derived ingredients.



Material Safety Data Sheet – Studio Series Tempera Colors, November 7, 2014.

Appendix A: Pigments and Associated Toxicity

Risk Characterization

The potential adverse effects of various pigments are determined through a process of risk characterization.

This process first identifies the hazard of the material, (that is, the inherent toxicity of the product), and the dose-response (that is, the relationship of toxicity to systemic dose). The systemic dose is milligrams, (mg), of material per kilogram, (kg), of body weight: mg/kg. Once the hazard and dose-response are known, an estimation of exposure is made, (that is, how much systemic dose is expected).

The systemic dose, in the case of Utrecht Studio Series Tempera Colors, is generally due to the amount that touches the skin and is subsequently absorbed into the body. The systemic dose, measured in mg/kg body weight, is compared with the toxic dose-response determined in laboratory studies.

If the systemic dose is 100 times lower than the dose in animals that causes no harm, the risk to humans is judged acceptable. In the case of Utrecht Studio Series Tempera Colors when the systemic dose is judged 100-fold lower than the no effect level (NOEL) in animals, a designation of “no significant toxicity” is made.

The following lists the Utrecht Studio Series Tempera Colors along with its Color Index, where available. The risk characterization is noted and the primary chemical component(s) upon which this risk is based is noted in parentheses.

All Utrecht Studio Series Tempera Colors are judged safe for use under typical studio and educational settings.

The designation “slight toxicity” does not reflect a quantitative comparison to other pigments; thus, the following list does not rank toxicities.

Appendix A lists each Utrecht Studio Series Tempera Color name followed by the Color Index of its pigment or pigments in parentheses. The risk characterization follows, “no significant toxicity,” followed by the identity of the pigment or pigments in parentheses.



Material Safety Data Sheet – Studio Series Tempera Colors, November 7, 2014.

Pigments with “no significant toxicity”

These products are “AP Approved” by ACMI

- Black (PBk11) - No significant toxicity, (Black Iron Oxide).
- Blue (PB15.3) - No significant toxicity, (Phthalocyanine Blue).
- Brown (PBr7) - No significant toxicity, (Burnt Sienna).
- Green (PY14, PB15.3) - No significant toxicity, (Diarylide Yellow, Phthalocyanine Blue).
- Magenta (PR169) - No significant toxicity, (Rhodamine Red).
- Orange (PO5) - No significant toxicity, (Dinitraniline Orange).
- Peach (PY42, PR101, PW6) - No significant toxicity, (Iron Oxide Yellow, Iron Oxide Red, Titanium White).
- Red (PR57) - No significant toxicity, (Lithol Rubine).
- Turquoise (PW6, PY14, PB15.3) - No significant toxicity, (Titanium White, Diarylide Yellow, Phthalocyanine Blue).
- Purple (PV27, PR169) - No significant toxicity, (Crystal Violet, Rhodamine Red).
- White (PW6) - No significant toxicity, (Titanium White).
- Yellow (PY14, PW6) – No significant toxicity, (Diarylide Yellow, Titanium White).