MATERIAL SAFETY DATA SHEET
Utrecht Gesso Painting Grounds

MSDS 908.4
Date: April 27, 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 Gesso Painting Grounds
- Utrecht Professional Gesso
- Utrecht Artists' Gesso
- Utrecht Studio Gesso
- Utrecht Artists' Black Gesso
- Utrecht Acrylic Canvas Sizing

See Appendix A for analysis of the toxicity of Utrecht Gesso Painting Grounds.

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

General statement of toxicity
Utrecht Gesso Painting Grounds have low toxicity. Apply with brush, priming knife or roller. It is always good practice to avoid accumulating art materials under fingernails or allowing contact with cuts or skin abrasions.

Formulation overview
Utrecht Gesso Painting Grounds are formulated in an acrylic binder and may contain pigments such as titanium dioxide, zinc oxide and calcium carbonate.

Toxicity associated with pigments
Appendix A lists the toxicity of Utrecht Gesso Painting Grounds based on risk characterization. PROP65 regulations in California require the following statement on those Grounds that contain titanium dioxide: *Warning: This product contains a chemical known to the State of California to cause cancer*[1].

[1] The Safe Drinking Water and Toxic Enforcement Act of 1986. This September 2, 2011 listing specifies "airborne unbound particles of respirable size" for titanium dioxide, a white pigment. It is unlikely that use of this product will generate such respirable particles. Do not sand painted surfaces.

Material Safety Data Sheet 908.4 – Gesso Painting Grounds, April 27, 2014.

Section 3 – Hazardous Component Information (hazard identification)

Appendix A lists Utrecht Gesso Painting Grounds Toxicity. The Risk Characterization process is noted in the preamble to Appendix A. In general, there is low risk of toxicity from skin exposure. Some Grounds contain titanium dioxide; these require a PROP65 label warning.

Section 4 – First Aid Measures

For overexposure due to accidental ingestion or inhalation, treat symptomatically. Adverse effects from skin exposure, (the expected route of exposure in normal use), are not expected.

Inhalation	If person is showing adverse effects in situations where dust from residue ground is being generated or the product is being sprayed without respiratory protection, 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. If ground has dried, first scrape residue off with a stiff hand brush or other appropriate instrument.
Eye Contact	Flush eyes for up to 15 minutes with water; if irritation persists, seek medical help.

Section 5 – Fire Fighting Measures

Utrecht Gesso Painting Grounds are water-based and are not flammable.

Flash point, ºC:	NA
Auto-ignition Temperature:	NA
Lower explosive limit:	NA
Upper explosive limit:	NA

Extinguishing media (general): Carbon dioxide, foam, dry chemical

Section 6 – Accidental Release Measures

Spill Procedure: Contain spillage; use dustless methods for cleanup.

Section 7 – Handling and Storage

Store at room temperature (avoid freezing).
Do not contaminate food products.
Wash hands after use.
Avoid eye contact.


Material Safety Data Sheet 908.4 – Gesso Painting Grounds, April 27, 2014.

Section 8 – Exposure Control/Personal Protection

Normal usage of Utrecht Gesso Painting Grounds does not require special Personal Protection Equipment, (PPE). Disposable gloves are recommended to minimize skin contact.). Remove residues on hands by washing. Do not use solvents on skin. Do not sand previous paintings without respirator protection.

Section 9 – Physical/Chemical Properties

Utrecht Gesso Painting Grounds are acrylic-based formulations. Some include white or black pigments, (see Appendix A).

Section 10 – Stability and Reactivity

Utrecht Gesso Painting Grounds are considered stable and non-reactive.

Section 11 – Toxicology Information

Utrecht Gesso Painting Grounds have low toxicity. Grounds can be applied by brush, priming knife, or roller. Avoid inhalation exposure by wearing respiratory protection if previously applied Ground is sanded. Appendix A lists the Utrecht Gesso Painting Grounds and their associated toxicity. In general, these Grounds are considered non-toxic at the anticipated levels of exposure, (i.e., skin exposure, generally restricted to the hands). Note the PROP65 warning based on titanium dioxide inhalation hazard.

Section 12 – Ecological Information

Toxicity to animals, fish and insects is not available.

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

Section 13 – Disposal Considerations

Under typical use situations, Utrecht Gesso Painting Grounds should be used up rather than disposed. Dispose of as a dry waste solid. Grounds are not considered hazardous waste.

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

MSDS prepared by Elliot Gordon, PhD, DABT, Elliot Gordon Consulting, LLC, 55 Lillie Street, Princeton Junction, NJ 08550 (609-936-1977; SoundScience@comcast.net).

Date of MSDS/revision: April 27, 2014

Appendix A: Utrecht Gesso Painting Grounds 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 Gesso Painting Grounds, is generally due to the amount that touches the skin and is subsequently absorbed into the body. The systemic dose, measured in mg/kg of 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 Gesso Painting Grounds 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 Gesso Painting Grounds color 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 Gesso Painting Grounds are judged safe for use under typical studio and educational settings. However the State of California has concluded that inhalation of titanium dioxide poses a risk of lung cancer; accordingly, a PROP 65 warning is required[2].

In the Appendix A list the Utrecht Gesso Painting Grounds name is first noted followed by the Color Index of its pigment or pigments in parentheses. The risk characterization follows.

[2] *Warning: This product contains a chemical known to the State of California to cause cancer.*

Material Safety Data Sheet 908.4 – Gesso Painting Grounds, April 27, 2014.

Utrecht Gesso Painting Grounds with "no significant toxicity"

These products are "AP Approved non toxic" by ACMI[3]

Utrecht Acrylic Canvas Sizing (Color Index: NA) Item: 6326 - No significant toxicity, (Acrylic polymer emulsion).

Utrecht Artists' Black Gesso - Medium-Bodied Acrylic Ground (Color Index: PBk9) Item: 9004; 9006 - No significant toxicity, (Bone black).

Utrecht Artists' Gesso - Medium-Bodied Acrylic Ground (Color Indices: PW6, PW4, PW18) Items 9000; 9001 - No significant toxicity*, (Titanium dioxide, Zinc oxide, Calcium carbonate).

Utrecht Professional Gesso - Heavy-Bodied Acrylic Ground (Color Indices: PW6, PW4, PW18) Items: 5102; 5202 - No significant toxicity*, (Titanium dioxide, Zinc oxide, Calcium carbonate).

Utrecht Studio Gesso - Light-Bodied Acrylic Ground (Color Indices: PW6, PW4, PW18) Item: 9002 - No significant toxicity*, (Titanium dioxide, Zinc oxide, Calcium carbonate).

* Note PROP65 required statement: *Warning: This product contains a chemical known to the State of California to cause cancer*[4].

[3] The Art & Creative Materials Institute, Inc., 1280 Main Street, P.O. Box 479, Hanson, MA 02341

[4] The Safe Drinking Water and Toxic Enforcement Act of 1986. This September 2, 2011 listing specifies "airborne unbound particles of respirable size" for titanium dioxide, a white pigment. It is unlikely that normal use of this product will generate such respirable particles. Do not sand painted surfaces without respiratory protection.