

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **194-180 AQUATINT TITANIUM WHITE**

Supplier - Manufacturer **Chemcraft International Inc.,**
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Canada L1A 3Z3

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For Transport Emergency or After Hours

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Code 194-180

Synonym AQUATINT TITANIUM WHITE

Chemical Name Not applicable.

Chemical Family Pigments. (Coloring material.)

Chemical Formula Not applicable.

Material Uses Coatings: Manufacture of surface coatings.

Product Identification Number (PIN) Not regulated.

Section 2. Hazardous Ingredients

Exposure limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
Diethylene glycol monomethyl ether	111-77-3	1 - 5	ORAL (LD50): Acute: 7128 mg/kg [Rat]. DERMAL (LD50): Acute: 9404 mg/kg [Rabbit].	Not available.

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

Section 3. Physical Data

Physical State and Appearance Liquid. (Viscous liquid.)

Color White. **Odor** Slight. **Taste** Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Neutral.

Boiling Point The lowest known value is 100°C (212°F) (Water). Weighted average: 108.45°C (227.2°F)

Melting Point May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -7.64°C (18.2°F)

Critical Temperature Not available.

Specific Gravity 2.14 (Water = 1)

Vapor Pressure The highest known value is 2.3 kPa (17.2 mm Hg) (at 20°C) (Water). Weighted average: 2.09 kPa (15.68 mm Hg) (at 20°C)

Vapor Density The highest known value is 4.14 (Air = 1) (Ethanol, 2-(2-methoxyethoxy)-). Weighted average: 1.29 (Air = 1)

Volatility Not available.

Odor Threshold Not available.

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Water/Oil Dist. Coeff.	The product is much more soluble in water.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, methanol.
Solubility	Easily soluble in hot water, methanol. Soluble in cold water. Insoluble in diethyl ether, n-octanol.

Section 4. Fire and Explosion Hazard

The Product is:	May be combustible at high temperature.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge, of heat, of oxidizing materials.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Flash Points	Closed cup: Higher than 93.3°C (200°F).
Flammable Limits	Not available.
Auto-Ignition Temperature	The lowest known value is 250°C (482°F) (Ethanol, 2-(2-methoxyethoxy)-).
Products of Combustion	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
Explosion Hazards in Presence of Various Substances	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Not available.
Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Not available.
Toxicity to Animals	Acute oral toxicity (LD50): 7128 mg/kg [Rat]. (Ethanol, 2-(2-methoxyethoxy)-). Acute dermal toxicity (LD50): 9404 mg/kg [Rabbit]. (Ethanol, 2-(2-methoxyethoxy)-).
Effects of Acute Exposure	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 4 (Probably not for human.) by IARC, None. by OSHA [Titanium dioxide (TiO ₂)]. Classified 4 (Probably not for human.) by IARC, None. by OSHA [Ethanol, 2-(2-methoxyethoxy)-]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to spleen, . Repeated or prolonged exposure to the substance can produce target organs damage.

Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Overexposure to this material has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these in humans: kidney damage, liver abnormalities, testis damage. (Ethanol, 2-(2-methoxyethoxy)-)
Special Remarks on Other Toxic Effects on Humans	Effects of dermal application of 50,250 and 750 mg/kg/day to pregnant rats during day 6 through day 18 of gestation were examined. 750 mg/kg/day resulted in slight embryotoxicity, fetotoxicity and maternal toxicity. 250 mg/kg/day produced slight fetotoxicity. At 50 mg/kg/day no embryonic, fetal or maternal effects were observed. (Ethanol, 2-(2-methoxyethoxy)-)
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
TDG Classification	-
PIN	Not regulated. PG: -
Special Provisions for Transport	-
Federal and State Regulations	Pennsylvania RTK: Ethanol, 2-(2-methoxyethoxy)- New Jersey: Ethanol, 2-(2-methoxyethoxy)- TSCA 8(b) inventory: Ethanol, 2-(2-methoxyethoxy)-
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications	WHMIS (Canada) Class D-2A: Material causing other toxic effects (VERY TOXIC). HCS (U.S.A.) Target organ effects
Hazardous Material Information System (U.S.A.)	Health Hazard * 0 Fire Hazard 1 Reactivity 0 Personal Protection A
National Fire Protection Association (U.S.A.)	Health 0 Fire Hazard 1 Reactivity 0 Specific Hazard

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Section 8. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
Hazardous Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	Not available.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	Not available.

Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	Not available.
Related Information	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
Preparation Information	Validated by Florendo Tarnate on 9/16/2005. Verified by Florendo Tarnate. Printed 9/16/2005.
Information Contact	Prepared by the Health, Safety and Environment Department, Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada. Phone: 905 885-6388 Fax: 905 885-5097

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.