

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Manufacturer** Professional Coatings, Inc.,  
100 Commerce Park Dr. Cabot, AR 72023

**Telephone** (501) 843-7509 **Fax** (501) 843-9261

**Product Names** NANOWEAR

**Recommended Use** Performance additive for water based coatings

**Restrictions on Use** For Industrial/Commercial use only

**Emergency Contact / Number** Chemtrec / (800) 424-9300 (US and Canada) / (703) 527- 3887 (outside US and Canada)

**SECTION 2: HAZARD IDENTIFICATION**

**Hazards**

Product is not classified

**Precautionary Statements**

Not Applicable

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS#	Component Percent
Aluminum oxide	1344-28-1	30 – 60
Non-hazardous ingredients	Mixture	Balance

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with clean, lukewarm water for at least 15 minutes while holding eyelids open. Remove contacts. Get medical attention if irritation persists.

**Skin Contact:** Wash affected area with mild soap and water then rinse with water. Remove any contaminated clothing and wash before reuse. Get medical attention if skin irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting because of aspiration hazard. Never give anything by mouth to an unconscious person. Rinse mouth and drink 1-2 glasses of water to dilute. Get medical attention.

**Inhalation:** Remove to fresh air and seek medical attention if adverse effects are observed.

**Most Important Symptoms / Effects:** No information available.

**Indication of Immediate Medical Attention and Special Treatment, If Necessary:** No information available.

**SECTION 5: FIREFIGHTING MEASURES**

**Suitable and Unsuitable Extinguishing Media:** Product will not burn. Use fire-fighting techniques such as carbon dioxide (CO<sub>2</sub>), foam or dry chemical suitable to surrounding fire. No unsuitable methods.

**Specific Hazards Arising from the Chemical:** Keep away from oxidizing agents. Closed containers may rupture or explode when exposed to extreme heat.

**Specific Protective Equipment and Precautions for Fire-Fighters:** Use a water spray to cool fire-exposed containers, structures and to protect personnel. Do not enter confined fire space without full equipment and a positive pressure NIOSH-approved self-contained breathing apparatus. Closed containers may explode from high heat.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**See Section 8 for personal protective gear.**

**Personal Precautions:** Isolate release area and keep unnecessary or untrained people away. Avoid skin or eye contact with spilled material.

**Environmental Precautions:** Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Advise EPA, state or local agencies as required.

**Methods for Cleaning Up:** Do not discharge to the environment. Transfer to labeled, sealable containers for product recovery or safe disposal. Small liquid spills can be handled using absorbent material. Larger spills should be diked to prevent runoff to the environment or sewer.

**SECTION 7: HANDLING AND STORAGE**

See Section 8 for personal protective gear.

**Handling and Storage:** Harmful in contact with skin. Avoid contact with skin and eyes. Keep container closed when not in use. Handle as an industrial chemical. Keep in a dry, cool and well-ventilated place. Take measures to prevent the buildup of electrostatic charge. Keep away from oxidizing agents, strong acids and strong bases.

**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION****Exposure Limits****Component Name****ACGIH TWA****OSHA TWA**

Aluminum oxide

1 mg/m3 (respirable)

15 mg/m3 (respirable)

**Engineering Controls:** Use appropriate ventilation to maintain airborne concentration limits below exposure limits.

**Eye and Face Protection:** Wear safety glasses or chemical safety goggles; use face shield if splashing is possible e.g. when pouring or working with large amounts.

**Skin Protection:** Wear protective gloves and other body protection according to the task and amount of exposure.

**Respiratory Protection:** If product is misted or sprayed, a Class 1 particulate respirator (APF10) is required (N, P, or R 100 filter).

**General Hygiene:** Handle in accordance with good industrial hygiene and safety practice. Use long legged and long sleeve work clothes. If splashing is possible, wear chemically resistant protective clothing.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance/Physical State</b>	White dispersion (liquid)	<b>Flash Point (PMCC)</b>	Not Applicable
<b>Specific Gravity (Water=1)</b>	1.41	<b>Upper Flammability Limits</b>	Not Applicable
<b>Evaporation Rate (butyl acetate = 1)</b>	Not Determined	<b>Lower Flammability Limits</b>	Not Applicable
<b>pH</b>	Not Determined	<b>Auto-ignition Temperature</b>	Not Applicable
<b>Solubility in Water</b>	Complete	<b>Decomposition Temperature</b>	Not Determined
<b>Odor</b>	None	<b>Vapor Pressure</b>	23 hPa (68 °F/20 °C)
<b>Odor Threshold</b>	Not Determined	<b>Vapor Density (Air=1)</b>	Not Determined
<b>Melting/Freezing Point</b>	> 39 °F	<b>Partition Coefficient (n-octanol/water)</b>	Not Determined
<b>Boiling Range</b>	Not Determined	<b>Viscosity (mPa. s, 20 °C)</b>	45
<b>Initial Boiling Point</b>	212 °F	<b>Critical Temperature</b>	Not Determined

Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Not reactive at normal storage and use conditions

**Chemical Stability:** Stable at normal storage and use conditions

**Possibility of Hazardous Reactions:** No data available

**Conditions to Avoid:** No data available

**Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases

**Hazardous Decomposition Products:** No data available

**SECTION 11: TOXICOLOGICAL INFORMATION**

Specific toxicity tests have not been conducted on this mixture. In accordance with OSHA's Hazard Communication Standard 1910.1200, this mixture is assumed to have the same health hazards as its significant components.

**Acute Toxicity Effects:** Likely routes of exposure are skin and eye contact which can cause irritation. Skin contact may cause irritation. Eye contact may cause irritation. Ingestion may cause irritation to the digestive tract. This product contains dispersed nanoparticles. Since the toxicological effects of this nanoparticle have not been explored, protect employees from all potential routes of exposure.

**Chronic Toxicity Effects:** Long term or repeated exposure may aggravate any acute symptoms. When in respirable form, aluminum oxide exposure has been associated with lung fibrosis. Additionally occupational aluminum oxide exposure has been associated w/neurological disorders but the evidence is inconclusive.

**Carcinogenicity:** NTP, OSHA and IARC have not identified any carcinogenic ingredients above the statutory limit of 0.1%.

**SECTION 12: ECOLOGICAL INFORMATION**

Specific environmental tests have not been conducted on this mixture. The product is not classified as an environmental hazard based on the properties of its main components.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Not a hazardous waste. Dispose of in accordance with local, state/province, and federal environmental regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT Information:** Not Regulated

**SECTION 15: REGULATORY INFORMATION**

**TSCA Status:** All components are listed in the TSCA inventory

**SARA 311/312 Reporting Categories:** None

**SARA 313 Reportable Ingredients:** None

**SECTION 16: OTHER INFORMATION**

**Department Issuing SDS:** Health and Safety

**Disclaimer**

**Important Notice to Purchaser.** The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for your intended application. **Professional Coatings, Inc.'s** exclusive warranty is as follows: If **Pro-Coat** products are proved defective, the user's exclusive remedy will be, at **Pro-Coat's** option, to replace the defective **Pro-Coat** product or to refund the purchase price for the defective quantity. Except for the replacement or refund remedies, **Pro-Coat** is not liable for direct damages or liable for indirect, incidental or consequential damages, regardless of the legal theory asserted, including negligence and strict liability.

**ADDITIONAL COMMENTS**

We recommend that containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable federal, state and local laws and regulations. "EMPTY" drums should not be given to individuals. The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.