PRECISION COATINGS
MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Identification

Material Name	EeZeClean Dry Erase White
MSDS Number	53130
Version Number	04
Revision Date	07/21/2014
CAS Number	Mixture
Product Code	53130
Product Use	Dry Erase Coating
Manufacture Supplier	Precision Coatings
Address	1940 E. Trafficway Springfield, MO 65802
Telephone	417-862-5738
FAX	417-862-8874
24 Hour Emergency Telephone	800-424-9300 Chemtrec Contract CCN675735
Preparation Information	Precision Coatings Product Safety 800-340-6780

Section 2. Hazards Identification

Physical state	Liquid
Appearance	Opaque liquid
Emergency overview	WARNING Combustible liquid and vapor Skin and eye irritant Vapor harmful Harmful or fatal if swallowed
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200
Potential health effects	
Routes of exposure	
Eye contact	Causes eye irritation
Skin contact	Causes skin irritation
Inhalation	Vapors can cause irritation of the respiratory tract, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
Ingestion	May cause gastrointestinal irritation and damage to the lining of the gastrointestinal tract. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.
Target organs	Eyes, skin, respiratory tract, central nervous system
Chronic effects	May cause liver disorder (e.g., edema, proteinuria) and damage. May cause kidney damage. Prolonged or continuous inhalation of vapors may result in lung damage.
Signs and symptoms	Skin and eye irritation. Respiratory tract irritation. Vapors may cause drowsiness, and dizziness.
Potential environmental effects	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

Section 3. Composition / Information on Ingredients

Components	CAS #	Percent
Titanium dioxide	13463-67-7	38-47
Parachlorobenzotrifluoride	98-56-6	6-7
Aluminum hydroxide	21645-51-2	0-5
Silicon dioxide, amorphous	7631-86-9	0-5
Octamethylcyclotetrasiloxane	556-67-2	0.06

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated shoes and clothes and clean before reuse.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion	Do not induce vomiting. Do not give liquids. Obtain emergency medical attention

Section 5. Fire Fighting Measures

Flash Point (TCC)	109º F, 42.8º C
Lower Explosive Limit, %	Not Determined
Upper Explosive Limit, %	Not Determined
Auto-Ignition Temperature	Not Determined
Extinguishing Media	Carbon Dioxide, Dry Chemical, Foam, Water Fog
Unusual Fire and Explosion Hazards	Combustible liquid and vapor. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such container to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat.
Special Firefighting Procedures	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service and eliminate all sources of ignition. Water spray to cool containers or protect personnel. Use with caution.

Section 6. Accidental Release Measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapors and contact with skin and eyes. Ensure adequate ventilation. Remove all sources of ignition. Evacuate unnecessary personnel.
Environmental Precautions	Prevent additional discharge of material if able to do so safely. Avoid discharge into drains, water courses or onto the ground.
Methods for Clean up	Ventilate area. Absorb spill with inert material (e.g. dry sand or earth). Remove with non-sparking tools and place in a chemical waste container. Dispose in accordance with all federal, state and local regulations. When discarded, this material is a hazardous waste.

Section 7. Handling and Storage

Handling	Use only in well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin and clothing. Ground and bond containers when transferring material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored or processed. Wash hands and contaminated areas with soap and water after handling.
Storage	Keep away from heat, sparks and flame. Store in tightly closed original container in a cool, dry and well ventilated place. Do not store above 120º F.

Section 8. Exposure Controls / Personal Protection

Occupational exposure limits

U.S. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum hydroxide (21645-51-2)	TWA	1 mg/m3	Respirable fraction
Titanium dioxide (13463-67-7)	TWA	10 mg/m3	

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Titanium dioxide (13463-67-7)	PEL	15mg/m3	Total dust

U.S. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Silicon dioxide (7631-86-9)	TWA	0.8 mg/m3 20 mppcf	

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / Face protection Wear chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Skin Protection Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed – apron, suit, boots

Respiratory protection Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and handling unless air monitoring demonstrates vapor/mist levels below applicable limits. Follow respirator manufacturer's recommendations for selection and use. Do not permit anyone without protection in the painting area.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical & Chemical Properties

Appearance	Opaque liquid
Color	White
Odor	Naphthalenic odor
Odor threshold	Not available
Physical state	Liquid
Form	Liquid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	282º F (139º C)
Flash point	109º F (42.8º C)
Evaporation rate	< 1 (n-BuAc=1)
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	➢ 1 Air = 1
Specific gravity	1.7516
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC as mixed (less water and exempt compounds)	89 grams per liter

Section 10. Chemical Stability & Reactivity Information

Chemical Stability	Stable at normal conditions
Conditions to avoid	Contact with incompatible materials. Keep away from heat, sparks, and flame
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Chlorine containing gasses can be produced Fluorine containing gases can be produced

Possibility of hazardous reactions Hazardous polymerization does not occur

Section 11. Toxicological Information

Acute effects Causes eye, skin and respiratory tract irritation. Vapors and spray mists may cause dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Ingestion may cause gastrointestinal irritation and damage to the lining of the gastrointestinal tract. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

Sensitization Not a skin sensitizer

Chronic effects May cause liver disorder (e.g., edema, proteinuria) and damage. May cause kidney damage. Prolonged or continuous inhalation of vapors may result in lung damage.

Carcinogenicity Potentially carcinogenic components are typically only present in trace amounts. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

ACGIH Carcinogens

Titanium dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon dioxide (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans
Titanium dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans

Mutagenicity No data available

Symptoms and target Organs Eyes, skin and respiratory tract irritation.

Further information None known

Section 12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Persistence and Degradability No data is available on the degradability of this product.

Bioaccumulation / Accumulation No data available

Mobility in environmental media The product is miscible with water. May spread in water systems.

Partition coefficient (n-octanol/water) Not available.

Section 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140°F.

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, may be a hazardous waste according to Federal regulations (40 CFR 261.4 (b) (4). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products	Dispose in accordance with applicable federal, state, and local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

DOT

Basic shipping requirements:	
UN number	UN1263
Proper shipping name	Paint
Hazard class	Combustible Liquid
Labels required	3
Additional information:	
Special provisions	B1, B52, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242

IATA

Basic shipping requirements:	
UN Number	1263
Proper shipping name	Paint
Hazard class	3
Packing group	III
Additional information:	
ERG code	3L

Section 15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200

US EPCRA (SARA Title III) Section 313 – Toxic Chemical: De minimis concentration
None

US EPCRA (SARA Title III) Section 313 – Toxic Chemical: Listed substance
None

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard – Yes
Delayed Hazard – Yes
Fire Hazard – Yes
Pressure Hazard – No
Reactivity Hazard - No

Section 302 extremely Hazardous substance (40 CFR 355, Appendix A)	No
Section 311/312 (40 CFR 370	No

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains chemicals known to the State of California to cause cancer.

US – California Hazardous Substances (Director's): Listed substance
Silicon dioxide (CAS 7631-86-9) Listed

US – California Proposition 65 – CRT: Listed date/Carcinogenic substance
Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011 Carcinogenic

US – Massachusetts RTK – Substance: Listed substance
Silicon dioxide (CAS 7631-86-9) Listed
Titanium Dioxide (CAS 13463-67-7) Listed

US – New Jersey RTK – Substances: Listed substance
Silicon dioxide (CAS 7631-86-9) Listed
Titanium Dioxide (CAS 13463-67-7) Listed

US – Pennsylvania RTK – Hazardous Substances: Listed substance
Silicon dioxide (CAS 7631-86-9) Listed
Titanium Dioxide (CAS 13463-67-7) Listed

Section 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA

HMIS® ratings
Health: 1
Flammability: 2
Physical hazard: 1

NFPA ratings
Health: 1
Flammability: 2
Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

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