MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	**1010 KM PROFESSIONAL ZERO VOC EGGSHELL 121 LIGHT BASE**
Version #	01
Issue date	12-November-2013
Revision date	-
Supersedes date	-
CAS #	Mixture
Product code	1010-121
Product use	Paint.
Manufacturer/Supplier	Kelly-Moore Paint Co., Inc.
Address	987 Commercial St., San Carlos, CA 94070
Telephone	1-800-874-4436
E-mail	rstetson@kellymoore.com
Emergency phone number	CHEMTREC: 1-800-424-9300

2. Hazards Identification

Physical state	Liquid.
Appearance	Milky white to colored liquid.
Emergency overview	CAUTION Prolonged or repeated contact may dry skin and cause irritation.
OSHA regulatory status	This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects	
Routes of exposure	Inhalation. Skin contact.
Eyes	Direct contact with eyes may cause temporary irritation.
Skin	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation	Prolonged inhalation may be harmful.
Ingestion	Ingestion may cause irritation and malaise.
Target organs	Central nervous system. Skin.
Chronic effects	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.
Signs and symptoms	Defatting of the skin. Vapors may cause drowsiness and dizziness.
Potential environmental effects	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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Titanium dioxide	13463-67-7	<26
Propylene glycol	57-55-6	1 - 2.5
Vinyl acetate	108-05-4	<0.2

Composition comments Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Skin contact	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention if irritation persists after washing.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if any discomfort continues.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.
Notes to physician	Treat symptomatically.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal precautions	Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Large Spills: Absorb in vermiculite, dry sand or earth and place into containers. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the MSDS.

7. Handling and Storage

Handling	Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.
Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Vinyl acetate (CAS 108-05-4)	STEL	15 ppm
	TWA	10 ppm

Exposure guidelines

US. OSHA Table Z-3 (29 CFR 1910.1000)

Crystalline silica (CAS 14808-60-7)	The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

	The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
	The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
Silica (CAS 61790-53-2)	The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
Silicon dioxide (CAS 7631-86-9)	The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Use safety glasses, goggles, or face shield to protect eyes.

Skin protection Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory protection Use NIOSH certified, air purifying respirators with N-, P-, or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. protection provided by air-purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134. Consult a qualified industrial hygienist or Safety Professional for respirator selection guidance.

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 and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Milky white to colored liquid.
Physical state	Liquid.
Form	Liquid.
Color	Various.
Odor	Slightly ammoniacal.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	>= 1 (Air=1)
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Moderately soluble
Specific gravity	1.27
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
VOC	38 g/l
Evaporation rate	< 1 (n-BuAc=1)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.

Hazardous decomposition products Carbon oxides. Silicon oxides.

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Propylene glycol (CAS 57-55-6)		
Acute		
Oral		
LD50	Rat	30 g/kg

Sensitization Not a skin sensitizer.

Acute effects In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Ingestion may cause irritation and malaise.

Chronic effects Prolonged or repeated contact may dry skin and cause dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

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

Crystalline silica (CAS 14808-60-7)	A2 Suspected human carcinogen.
Titanium dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.
Vinyl acetate (CAS 108-05-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (CAS 14808-60-7)	1 Carcinogenic to humans.
Silica (CAS 61790-53-2)	3 Not classifiable as to carcinogenicity to humans.
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.
Vinyl acetate (CAS 108-05-4)	2B Possibly carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7)	Known To Be Human Carcinogen.

Further information Components of the product may be absorbed into the body through the skin.

12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
Propylene glycol (CAS 57-55-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours

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.

Partition coefficient

Propylene glycol (CAS 57-55-6)	-0.92

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

13. Disposal Considerations

Waste codes Not regulated.

Disposal instructions	Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not 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.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Vinyl acetate (CAS 108-05-4)

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Vinyl acetate (CAS 108-05-4)	5000 lbs

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Vinyl acetate (CAS 108-05-4)	1000 lbs

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Vinyl acetate (CAS 108-05-4)	0.1 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Vinyl acetate (CAS 108-05-4)	Listed.

CERCLA (Superfund) reportable quantity

Vinyl acetate: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
SARA 311/312 Hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory 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

Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acetaldehyde (CAS 75-07-0)	Listed: April 1, 1988 Carcinogenic.

Crystalline silica (CAS 14808-60-7)	Listed: October 1, 1988 Carcinogenic.
Titanium dioxide (CAS 13463-67-7)	Listed: September 2, 2011 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Crystalline silica (CAS 14808-60-7)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

US. Massachusetts RTK - Substance List

Crystalline silica (CAS 14808-60-7)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

US. New Jersey Worker and Community Right-to-Know Act

Vinyl acetate (CAS 108-05-4)	500 lbs

US. Pennsylvania RTK - Hazardous Substances

Crystalline silica (CAS 14808-60-7)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

16. Other Information

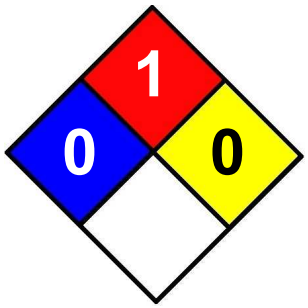
Further information

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

HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA Ratings



Disclaimer

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