MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **220 WEATHER SHIELD EXTERIOR ALKYD PRIMER 100 WHITE**

Version # 01

Revision date 01-16-2011

CAS # Mixture

Product code 220-100

Product use Paint.

Manufacturer/Supplier Kelly-Moore Paint Co., Inc.
987 Commercial St., San Carlos, CA 94070
E-mail: rstetson@kellymoore.com
Telephone number: 1-800-874-4436
Contact Person: Robert Stetson

Emergency Emergency Telephone Number: 1-800-424-9300

2. Hazards Identification

Physical state Liquid.

Appearance Milky white to colored liquid.

Emergency overview WARNING

Combustible liquid and vapor.
Causes skin, eye and respiratory tract 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 Causes eye irritation.

Skin Causes skin irritation.

Inhalation Causes respiratory tract irritation. Prolonged inhalation may be harmful.

Ingestion Ingestion may cause irritation and malaise.

Target organs Central nervous system. Eyes. Skin. Respiratory tract.

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 Skin and eye irritation. Respiratory tract irritation. 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
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	<13
Polymer	Proprietary	<5
Stoddard solvent	8052-41-3	<3
Solvent naphtha (pertroleum), heavy aromatic	64742-94-5	<2
Titanium dioxide	13463-67-7	<1

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	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if irritation develops or persists.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.
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	Combustible liquid and vapor.

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 fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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	Eliminate all ignition sources. 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	Keep away from heat, sparks, and flame. 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
Stoddard solvent (8052-41-3)	TWA	100 ppm

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

Components	Type	Value
Stoddard solvent (8052-41-3)	PEL	500 ppm
		2900 mg/m3

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 Wear approved safety goggles.

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.

Color Various.

Odor Slightly ammoniacal.

Odor threshold Not available.

Physical state Liquid.

Form Liquid.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point Not available.

Flash point 105 °F (40.6 °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 Not available.

Solubility (water) Moderately soluble

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

Auto-ignition temperature Not available.

Decomposition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under 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 Carbon oxides. Silicon oxides.

Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Causes skin, eye and respiratory tract irritation. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Ingestion may cause irritation and malaise.
Sensitization	Not a skin sensitizer.
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.
Talc (CAS 14807-96-6)	A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.

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.
Stoddard solvent (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.
Talc (CAS 14807-96-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.
Titanium dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7)	Known carcinogen.

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

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.

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.

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

IMDG

Basic shipping requirements:	
UN number	1263
Proper shipping name	PAINT
Hazard class	3
Packing group	III
EmS No.	F-E, S-E*

15. Regulatory Information

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

CERCLA (Superfund) reportable quantity (lbs)

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	No
Section 311 hazardous chemical	No

Inventory status

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

*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 and birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Talc (CAS 14807-96-6)	Listed.

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

Benzene (CAS 71-43-2)	Listed: February 27, 1987 Carcinogenic.
Crystalline silica (CAS 14808-60-7)	Listed: October 1, 1988 Carcinogenic.
Ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2)	Listed: December 26, 1997 Developmental toxin.
Toluene (CAS 108-88-3)	Listed: January 1, 1991 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)	Listed: August 7, 2009 Female reproductive toxin.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2)	Listed: December 26, 1997 Male reproductive toxin.

US - Massachusetts RTK - Substance: Listed substance

Crystalline silica (CAS 14808-60-7)	Listed.
Limestone (CAS 1317-65-3)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Talc (CAS 14807-96-6)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.

US - New Jersey RTK - Substances: Listed substance

Crystalline silica (CAS 14808-60-7)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Talc (CAS 14807-96-6)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Crystalline silica (CAS 14808-60-7)	Listed.
Limestone (CAS 1317-65-3)	Listed.
Silica (CAS 61790-53-2)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.
Solvent naphtha (pertroleum), heavy aromatic (CAS 64742-94-5)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Talc (CAS 14807-96-6)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.

16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 2 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. Additional information is given in the Material Safety Data Sheet.
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