

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 1711 KEL-GUARD ALKYD RUST PREVENTATIVE PRIMER 100 WHITE  
**Version #** 01  
**Revision date** 01-27-2011  
**CAS #** Mixture  
**Product code** 1711-100  
**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 contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Polymer	Proprietary	<13
Stoddard solvent	8052-41-3	<12
Barium metaborate monohydrate	13701-59-2	<7
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	<7
Titanium dioxide	13463-67-7	<7
Solvent naphtha (petroleum), light aromatic	64742-95-6	<3
solvent naphtha (petroleum), heavy aromatic	64742-94-5	<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

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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
<b>Engineering controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
<b>Personal protective equipment</b>		
<b>Eye / face protection</b>	Wear approved safety goggles.	
<b>Skin protection</b>	Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.	
<b>Respiratory protection</b>	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.	
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Milky white to colored liquid.
<b>Color</b>	Various.
<b>Odor</b>	Slightly ammoniacal.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	105 °F (40.6 °C)
<b>Evaporation rate</b>	< 1 (n-BuAc=1)
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1 Air = 1
<b>Specific gravity</b>	Not available.
<b>Solubility (water)</b>	Moderately soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials. Keep away from heat, sparks, and flame.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous decomposition products</b>	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.
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.
Stoddard solvent (CAS 8052-41-3)	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.
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**Further information** Components of the product may be absorbed into the body through the skin.

## 12. Ecological Information

### Ecotoxicological data

#### Components

#### Test Results

Barium metaborate monohydrate (13701-59-2)	LC50 Harlequinfish, red rasbora ( <i>Rasbora heteromorpha</i> ): 0.145 mg/l 96 hours
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**Ecotoxicity** This product has been identified as having potential environmental concerns.

**Environmental effects** The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**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:

<b>UN number</b>	UN1263
<b>Proper shipping name</b>	Paint

<b>Hazard class</b>	Combustible Liquid
<b>Labels required</b>	3
<b>Additional information:</b>	
<b>Special provisions</b>	B1, B52, IB3, T2, TP1
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	173
<b>Packaging bulk</b>	242

**IATA**

**Basic shipping requirements:**

<b>UN number</b>	1263
<b>Proper shipping name</b>	Paint
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>ERG code</b>	3L

**IMDG**

**Basic shipping requirements:**

<b>UN number</b>	1263
<b>Proper shipping name</b>	PAINT
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>EmS No.</b>	F-E, S-E*

**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**

Barium metaborate monohydrate (CAS 13701-59-2) 1.0 % N040

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

Barium metaborate monohydrate (CAS 13701-59-2) N040 Listed.

**CERCLA (Superfund) reportable quantity (lbs)**

Barium metaborate monohydrate 1000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>Section 311 hazardous chemical</b>	No
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**Inventory status**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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

Country(s) or region	Inventory name	On inventory (yes/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**

Barium metaborate monohydrate (CAS 13701-59-2) Listed.  
 Stoddard solvent (CAS 8052-41-3) 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.  
 Stoddard solvent (CAS 8052-41-3) Listed.  
 Titanium dioxide (CAS 13463-67-7) Listed.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Barium metaborate monohydrate (CAS 13701-59-2) 500 LBS

**US - New Jersey RTK - Substances: Listed substance**

Barium metaborate monohydrate (CAS 13701-59-2) Listed.  
 Crystalline silica (CAS 14808-60-7) Listed.  
 Stoddard solvent (CAS 8052-41-3) 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.  
 solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5) Listed.  
 Stoddard solvent (CAS 8052-41-3) Listed.  
 Titanium dioxide (CAS 13463-67-7) Listed.

**16. Other Information**

<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA.
<b>HMIS® ratings</b>	Health: 2* Flammability: 2 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 2 Instability: 0
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Issue date</b>	01-27-2011