

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 1712 ALL METAL GARD RUST-INHIBITIVE PRIMER 100 WHITE  
**Version #** 01  
**Revision date** 12-29-2010  
**CAS #** Mixture  
**Product code** 1712-100  
**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** 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
Solvent naphtha (petroleum), light aliphatic	64742-89-8	<17
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	<14
Titanium dioxide	13463-67-7	<12
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	<7
Xylene	1330-20-7	<5
Isobutyl alcohol	78-83-1	<3

**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>	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.
<b>Skin contact</b>	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention if irritation persists after washing.
<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

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 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

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
Isobutyl alcohol (78-83-1)	TWA	50 ppm
Xylene (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Isobutyl alcohol (78-83-1)	PEL	100 ppm 300 mg/m <sup>3</sup>
Xylene (1330-20-7)	PEL	100 ppm 435 mg/m <sup>3</sup>

**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** Not available.

**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.

**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** 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.
Ethylbenzene (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Portland cement (CAS 65997-15-1)	A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.
Toluene (CAS 108-88-3)	A4 Not classifiable as a human carcinogen.
Xylene (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (CAS 14808-60-7)	1 Carcinogenic to humans.
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic 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.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity 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

**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** Not regulated.

### US RCRA Hazardous Waste U List: Reference

Isobutyl alcohol (CAS 78-83-1)	U140
Toluene (CAS 108-88-3)	U220
Xylene (CAS 1330-20-7)	U239

**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.

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

Barium metaborate monohydrate (CAS 13701-59-2)	1.0 % N040
Ethylbenzene (CAS 100-41-4)	0.1 %
Toluene (CAS 108-88-3)	1.0 %
Xylene (CAS 1330-20-7)	1.0 %

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

Barium metaborate monohydrate (CAS 13701-59-2)	N040 Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Toluene (CAS 108-88-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

### CERCLA (Superfund) reportable quantity (lbs)

Xylene 1000  
Isobutyl alcohol 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** 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

Barium metaborate monohydrate (CAS 13701-59-2)	Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Isobutyl alcohol (CAS 78-83-1)	Listed.
Silicon dioxide (CAS 7631-86-9)	Listed.

Toluene (CAS 108-88-3) Listed.  
Xylene (CAS 1330-20-7) Listed.

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

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**

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 - Massachusetts RTK - Substance: Listed substance**

Crystalline silica (CAS 14808-60-7) Listed.  
Ethylbenzene (CAS 100-41-4) Listed.  
Isobutyl alcohol (CAS 78-83-1) Listed.  
Limestone (CAS 1317-65-3) Listed.  
Portland cement (CAS 65997-15-1) Listed.  
Silicon dioxide (CAS 7631-86-9) Listed.  
Titanium dioxide (CAS 13463-67-7) Listed.  
Toluene (CAS 108-88-3) Listed.

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

Barium metaborate monohydrate (CAS 13701-59-2) 500 LBS  
Ethylbenzene (CAS 100-41-4) 500 LBS  
Toluene (CAS 108-88-3) 500 LBS  
Xylene (CAS 1330-20-7) 500 LBS

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

Barium metaborate monohydrate (CAS 13701-59-2) Listed.  
Crystalline silica (CAS 14808-60-7) Listed.  
Ethylbenzene (CAS 100-41-4) Listed.  
Isobutyl alcohol (CAS 78-83-1) Listed.  
Portland cement (CAS 65997-15-1) Listed.  
Silicon dioxide (CAS 7631-86-9) Listed.  
Titanium dioxide (CAS 13463-67-7) Listed.  
Toluene (CAS 108-88-3) Listed.  
Xylene (CAS 1330-20-7) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Crystalline silica (CAS 14808-60-7) Listed.  
Ethylbenzene (CAS 100-41-4) Listed.  
Isobutyl alcohol (CAS 78-83-1) Listed.  
Limestone (CAS 1317-65-3) Listed.  
Portland cement (CAS 65997-15-1) Listed.  
Silicon dioxide (CAS 7631-86-9) Listed.  
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5) Listed.  
Titanium dioxide (CAS 13463-67-7) Listed.  
Toluene (CAS 108-88-3) Listed.  
Xylene (CAS 1330-20-7) 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**

Health: 0  
Flammability: 1  
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.

**Issue date**

12-29-2010