1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**
ORIGINS BY BENJAMIN MOORE ULTIMATE, EXTERIOR LO-LUSTRE, HOUSE & TRIM MEDIUM BASE

**Product Code**
K1192C (CT # 048-8582-4 & 048-8583-2)

**Alternate Product Code**
K1192C

**Manufacturer Code**
K1192C

**Product Class**
WATER THINNED PAINT

**Color**
All

**Manufacturer**
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 855-724-6802
www.benjaminmoore.com

2. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight % (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

**Emergency Overview**
Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.

**Appearance**
liquid

**Odor**
little or no odor

**Potential Health Effects**

**Principal Routes of Exposure**
Eye contact, skin contact and inhalation.

**Acute Effects**

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>May cause slight irritation.</td>
<td>Substance may cause slight skin irritation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>May cause irritation of respiratory tract.</td>
<td>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</td>
</tr>
</tbody>
</table>

**Chronic Effects**
Repeated contact may cause allergic reactions in very susceptible persons.
See Section 11 for additional Toxicological information.

Aggravated Medical Conditions  None known.

<table>
<thead>
<tr>
<th>HMIS -</th>
<th>Health: 1</th>
<th>Flammability: 0</th>
<th>Reactivity: 0</th>
<th>PPE: -</th>
</tr>
</thead>
</table>

**HMIS Legend**
0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

*Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.*

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

### 4. FIRST AID MEASURES

**General Advice**
No hazards which require special first aid measures.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation**
Move to fresh air. If symptoms persist, call a physician.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

**Notes To Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Protective Equipment And Precautions For Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific Hazards Arising From The Chemical**
Closed containers may rupture if exposed to fire or extreme heat.

**Sensitivity To Mechanical Impact**
No

**Sensitivity To Static Discharge**
No
Flash Point Data
- Flash Point (°F)  Not applicable
- Flash Point (°C)  Not applicable
- Flash Point Method  Not applicable

Flammability Limits In Air
- Upper Explosion Limit  Not applicable
- Lower Explosion Limit  Not applicable

NFPA Health: 1  Flammability: 0  Instability: 0  Special: Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Environmental Precautions
Prevent further leakage or spillage if safe to do so.

Methods For Clean-Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Other Information
None known

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>10 mg/m³ - TWA</td>
<td>10 mg/m³ - TWA</td>
<td>10 mg/m³ - TWA</td>
<td>10 mg/m³ - TWA</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>2 mg/m³ - TWA</td>
<td>2 mg/m³ - TWA</td>
<td>2 mg/m³ - TWA</td>
<td>2 mg/m³ - TWA</td>
<td>10 mg/m³ - TWA</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ - STEL</td>
<td>20 mg/m³ - STEL</td>
<td>10 mg/m³ - STEL</td>
<td>10 mg/m³ - STEL</td>
<td>10 mg/m³ - TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³ - STEL</td>
<td></td>
<td>5 mg/m³ - TWA</td>
</tr>
</tbody>
</table>

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K1192C (CT # 048-8582-4 & 048-8583-2) - ORIGINS BY
BENJAMIN MOORE ULTIMATE, EXTERIOR
LO-LUSTRE, HOUSE & TRIM MEDIUM BASE

Revision Date: 30-Jun-2016

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
Alberta - Alberta Occupational Exposure Limits
British Columbia - British Columbia Occupational Exposure Limits
Ontario - Ontario Occupational Exposure Limits
Quebec - Quebec Occupational Exposure Limits
N/E - Not established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment
Eye/Face Protection - Safety glasses with side-shields.
Skin Protection - Protective gloves and impervious clothing.
Respiratory Protection - In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance - liquid
Odor - little or no odor
Density (lbs/gal) - 10.10 - 10.40
Specific Gravity - 1.19 - 1.24
pH - Not available
Viscosity (centistokes) - Not available
Evaporation Rate - Not available
Vapor Pressure - Not available
Vapor Density - Not available
Wt. % Solids - 40 - 50
Vol. % Solids - 30 - 40
Wt. % Volatiles - 50 - 60
Vol. % Volatiles - 60 - 70
VOC Regulatory Limit (g/L) - < 50
Boiling Point (°F) - 212
Boiling Point (°C) - 100
Freezing Point (°F) - 32
Freezing Point (°C) - 0
Flash Point (°F) - Not applicable
Flash Point (°C) - Not applicable
Flash Point Method - Not applicable
Upper Explosion Limit - Not available
Lower Explosion Limit - Not available

10. STABILITY AND REACTIVITY

Chemical Stability - Stable under normal conditions.
Conditions To Avoid - Prevent from freezing.
11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information
No information available

Component

Titanium dioxide
LD50 Oral: > 10000 mg/kg (Rat)
Zinc oxide
LD50 Oral: 5000 mg/kg (Rat)
LC50 Inhalation (Dust): > 5700 mg/m³ (Rat, 4 hr.)

Chronic Toxicity

Carcinogenicity
The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
</tbody>
</table>

• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: “No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint.”

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
Acute Toxicity to Aquatic Plants
No information available

**Component**

Acute Toxicity to Fish
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**
Dispose of in accordance with federal, state, provincial, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

### 14. TRANSPORT INFORMATION

**TDG**
Not regulated

**ICAO / IATA**
Not regulated

**IMDG / IMO**
Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA: United States**
Yes - All components are listed or exempt.

**DSL: Canada**
Yes - All components are listed or exempt.

**National Pollutant Release Inventory (NPRI)**

**NPRI Parts 1-4**
This product contains the following Parts 1-4 NPRI chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight % (max)</th>
<th>NPRI Parts 1-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1 - 5%</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**NPRI Part 5**
This product contains the following NPRI Part 5 Chemicals:
WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials

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16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Prepared By
Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
855-724-6802

Revision Date: 30-Jun-2016
Revision Summary: No information available

Disclaimer

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End of MSDS