Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FRESH START ALL PURPOSE 100% ACRYLIC PRIMER WHITE
Product Code: K02300
Product Class: WATER THINNED PAINT
Color: White

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
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>10 - 30%</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:
- Eyes: May cause slight irritation.
- Skin: Substance may cause slight skin irritation.
- Inhalation: May cause irritation of respiratory tract.
**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions**

None known

**HMIS Legend**

<table>
<thead>
<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
<th>PPE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - Minimal Hazard</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>1 - Slight Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - Moderate Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - Serious Hazard</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4 - Severe Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* - Chronic Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, Benjamin Moore & Co., 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.

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**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

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**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 by Benjamin Moore & Co. 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>Hazardous Components</th>
<th>ACGIH</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
</table>

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| Titanium dioxide | 10 mg/m³ - TWA | 10 mg/m³ - TWA | 10 mg/m³ - TWA | 10 mg/m³ - TWA | 10 mg/m³ - TWA |

**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)**
  - 10.1 - 10.2
- **Specific Gravity**
  - 1.15 - 1.25
- **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**
  - 25 - 35
- **Wt. % Volatiles**
  - 50 - 60
- **Vol. % Volatiles**
  - 65 - 75
- **VOC Regulatory Limit (g/L)**
  - < 100
- **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

Incompatible Materials
No materials to be especially mentioned

Hazardous Decomposition Products
None under normal use.

Possibility Of Hazardous Reactions
Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product
No information available

Component
Titanium dioxide
LD50 Oral: > 24000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m² (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (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>Listed</td>
<td></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
Acute Toxicity to Fish
No information available
12. ECOLOGICAL INFORMATION

Acute Toxicity to Aquatic Invertebrates
No information available

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
United States TSCA Yes - All components are listed or exempt.
Canada DSL No - Not all of the components are listed.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1- 4
This product contains the following Parts 1-4 NPRI chemicals:
15. REGULATORY INFORMATION

This product may contain trace amounts of (other) NPRI Parts I-4 reportable chemicals. Contact Benjamin Moore & Co. for further information.

NPRI Part 5
This product contains the following NPRI Part 5 Chemicals:

This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact Benjamin Moore & Co. for further information.

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

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/iyh-vsv/prod/paint-peinture_e.html.

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866-690-1961

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Revision Summary: No information available
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End of MSDS