Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BENJAMIN MOORE RESTORE
Product Code: K31600
Product Class: SURFACE PREPARATION PRODUCT
Color: Blue

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>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>7 - 13%</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>0.5 - 1%</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
Corrosive. Causes severe eye and skin burns. Harmful if swallowed. May cause irritation of respiratory tract.

Appearance: liquid Blue
Odor: mild

Potential Health Effects

Principal Routes of Exposure: Eye contact, skin contact and inhalation.
Acute Effects

**Eyes**
Corrosive to the eyes and may cause severe damage including blindness.

**Skin**
Causes burns.

**Inhalation**
Irritating to respiratory system. Avoid breathing vapors or mists.

**Ingestion**
Can burn mouth, throat, and stomach.

Chronic Effects
Prolonged exposure may cause chronic effects. May cause blood damage.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions
None known

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health: 3</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**
Take off contaminated clothing and shoes immediately. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye Contact**
Rinse thoroughly with plenty of water, also under the eyelids. Immediate medical attention is required.

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

**Inhalation**
Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

**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: 3
- 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 the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions
Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Should not be released into the environment.

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 or mists. 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

### Hazardous Components

<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>Sodium hydroxide</td>
<td>2 mg/m³ - Ceiling</td>
<td>2 mg/m³ - Ceiling</td>
<td>2 mg/m³ - Ceiling</td>
<td>2 mg/m³ - CEV</td>
<td>2 mg/m³ - Ceiling</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>20 ppm - TWA</td>
<td>20 ppm - TWA</td>
<td>97 mg/m³ - TWA</td>
<td>20 ppm - TWA</td>
<td>20 ppm - TWA</td>
</tr>
</tbody>
</table>

Substance may be readily absorbed through intact skin.
Absorption through skin, eyes, or mucous membranes.

### 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**: Goggles. Face-shield.
- **Skin Protection**: Impervious butyl rubber gloves. Impervious clothing.
- **Respiratory Protection**: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

### 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 Blue
- **Odor**: mild
- **Density (lbs/gal)**: 13.1 - 13.5
- **Specific Gravity**: 1.56 - 1.62
- **pH**: 14
- **Viscosity (centistokes)**: Not available
- **Solubility**: Soluble
- **Evaporation Rate**: Not available
- **Vapor Pressure**: Not available
- **Vapor Density**: Not available
- **Wt. % Solids**: 5 - 15
- **Vol. % Solids**: 0 - 10
- **Wt. % Volatiles**: 85 - 95
- **Vol. % Volatiles**: 90 - 100
- **VOC Regulatory Limit (g/L)**: Not applicable
- **Boiling Point (°F)**: 212
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°C)</td>
<td>100</td>
</tr>
<tr>
<td>Freezing Point (°F)</td>
<td>32</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>0</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>Not available</td>
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</table>

10. STABILITY AND REACTIVITY

- **Chemical Stability**: Stable under normal conditions.
- **Conditions To Avoid**: Prevent from freezing
- **Hazardous Decomposition Products**: Thermal decomposition can lead to release of irritating gases and vapors.
- **Possibility Of Hazardous Reactions**: Hazardous polymerisation will not occur.
11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product
No information available

Component
Sodium hydroxide
LD50 Oral: 220 mg/kg (Rat)  vendor data
LD50 Dermal: 1350 mg/kg (Rabbit)
Sensitization: No sensitizing effects known.

Sodium metasilicate
LD50 Oral: 1153 mg/kg (Rat)

2-Butoxyethanol
LD50 Oral: 470 mg/kg (Rat)
LD50 Dermal: 220 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 2.2 mg/L (Rat, 4 hr.)
Sensitization: No sensitizing effects known.

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>2-Butoxyethanol</td>
<td>A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
<td></td>
<td></td>
<td></td>
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</table>

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
2-Butoxyethanol
LC50: 1490 mg/L (Bluegill sunfish - 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. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

TDG
Proper Shipping Name          Corrosive liquid, basic, inorganic, n.o.s
Hazard Class                   8
UN-No                         UN3266
Packing Group                  II

ICAO / IATA
Contact Benjamin Moore & Co. for further information.

IMDG / IMO
Contact Benjamin Moore & Co. for further information.

15. REGULATORY INFORMATION

International Inventories
United States TSCA Yes - All components are listed or exempt.
Canada DSL       Yes - All components are listed or exempt.

National Pollutant Release Inventory (NPRI)
15. REGULATORY INFORMATION

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

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This product may contain trace amounts of (other) NPRI Parts 1-4 reportable chemicals. Contact the preparer for further information.

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

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This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact the preparer 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
E Corrosive material

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/hl-vs/iyh-vsv/prod/paint-peinture-eng.php.

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

Revision Date: 06-Jan-2014
Revision Summary No information available
Disclaimer

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