



Material Safety Data Sheet

Revision Date: 06-Jan-2014

Revision Number: 4

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

Emergency Telephone Number(s)
CANUTEC: 613-996-6666

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Sodium hydroxide	1310-73-2	7 - 13%
Sodium metasilicate	6834-92-0	1 - 5%
2-Butoxyethanol	111-76-2	0.5 - 1%

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

HMIS **Health: 3** **Flammability: 0** **Reactivity: 0** **PPE: -**

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

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Sodium hydroxide	2 mg/m ³ - Ceiling	2 mg/m ³ - Ceiling	2 mg/m ³ - Ceiling	2 mg/m ³ - CEV	2 mg/m ³ - Ceiling
Sodium metasilicate	N/E	N/E	N/E	N/E	N/E
2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA 97 mg/m ³ - TWA Substance may be readily absorbed through intact skin	20 ppm - TWA	20 ppm - TWAEV Absorption through skin, eyes, or mucous membranes	20 ppm - TWAEV 97 mg/m ³ - TWAEV

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

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	Strong oxidizing agents. alkalies. acids. halogens. Ammonia. amines. reducing sugars. nitromethane.
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:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
2-Butoxyethanol	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans			

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:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
2-Butoxyethanol	111-76-2	0.5 - 1%

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:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
2-Butoxyethanol	111-76-2	0.5 - 1%

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>.

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Disclaimer

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K31600CG

End of MSDS