

# **Material Safety Data Sheet**

Revision Date: 12-Jan-2010 Revision Number: 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name IRONCLAD LATEX LOW LUSTRE METAL & WOOD ENAMEL

Product Code C363

Product Class WATER THINNED PAINT

Color

Manufacturer Emergency Telephone Number(s)

Benjamin Moore & Co. CHEMTREC: 800-424-9300

101 Paragon Drive Montvale, NJ 07645 Phone: 201-573-9600 www.benjaminmoore.com

# 2. COMPOSITION INFORMATION ON COMPONENTS

**Hazardous Components** 

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Chemical Name	CAS-No	Weight % (max)			
Titanium dioxide	13463-67-7	20			
Kaolin	1332-58-7	10			
Ethylene glycol mono-2-ethylhexyl ether	1559-35-9	5			
Ethylene glycol	107-21-1	5			
Zinc phosphate	7779-90-0	5			
Carbon black	1333-86-4	5			
Sodium nitrite	7632-00-0	0.5			

# 3. HAZARDS IDENTIFICATION

# Emergency Overview WARNING

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** Contact with eyes may cause irritation.

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**Skin** May cause skin irritation and/or dermatitis. May be absorbed through the skin in

harmful amounts.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea. Contains ethylene glycol which may cause birth defects.

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Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons. Can be

absorbed through skin. May cause liver damage. May cause kidney damage.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS Health: 2\* Flammability: 1 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, Benjamin Moore & Co., has choosen 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)

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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) 250.0 Flash Point (°C) 121.1

Flash Point Method Not applicable

Flammability Limits In Air

Lower Explosion LimitNot applicableUpper Explosion LimitNot applicable

NFPA Health: 2 Flammability: 1 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

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# **Exposure Limits**

**Hazardous Components** 

ACGIH	OSHA
10 mg/m³ - TWA	15 mg/m <sup>3</sup> - TWA total
2 mg/m³ - TWA	15 mg/m <sup>3</sup> - TWA total
	5 mg/m <sup>3</sup> - TWA
N/E	N/E
100 mg/m <sup>3</sup> - Ceiling	N/E
N/E	N/E
3.5 mg/m <sup>3</sup> - TWA	3.5 mg/m <sup>3</sup> - TWA
N/E	N/E
	10 mg/m <sup>3</sup> - TWA 2 mg/m <sup>3</sup> - TWA  N/E  100 mg/m <sup>3</sup> - Ceiling  N/E  3.5 mg/m <sup>3</sup> - TWA

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

Freezing Point (°C)

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

0

**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) 8.8 - 10.3 **Specific Gravity** 1.05 - 1.24 Not available Viscosity (centistokes) Not available **Evaporation Rate** Not available **Vapor Pressure** Not available Not available **Vapor Density** Wt. % Solids 40 - 60 Vol. % Solids 30 - 50Wt. % Volatiles 40 - 60 Vol. % Volatiles 50 - 70 **VOC Regulatory Limit (g/L)** < 150 **Boiling Point (°F)** 212 **Boiling Point (°C)** 100 Freezing Point (°F) 32

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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Flash Point (°F) 250.0 Flash Point (°C) 121.1

Flash Point Method Not applicable
Upper Explosion Limit Not applicable
Lower Explosion Limit Not applicable

# 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

None under normal conditions of use.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

#### **Product**

No information available

#### Component

Titanium dioxide

LD50 Oral: > 24000 mg/kg (Rat) LD50 Dermal: > 10000 mg/m³ (Rabbit)

LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

Ethylene glycol

LD50 Oral: 4700 mg/kg (Rat) LD50 Dermal: 9530 µg/L (Rabbit)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat) LD50 Dermal: > 3000 mg/kg (Rabbit)

Sodium nitrite

LD50 Oral: 180 mg/kg (Rat)

LC50 Inhalation (Dust): 5.5 mg/m<sup>3</sup> (Rat, 4 hr.)

**Chronic Toxicity** 

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# Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Titanium dioxide		2B - Possible		Listed
		Human		
		Carcinogen		
Carbon black		2B - Possible		Listed
		Human		
		Carcinogen		
Sodium nitrite		2A - Probable		
		Human		
		Carcinogen		

 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

# **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.)

Ethylene glycol

LC50: 8050 mg/L (Fathead Minnow - 96 hr.)

# 12. ECOLOGICAL INFORMATION

## **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, 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

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protection agency for more disposal options.

# 14. TRANSPORT INFORMATION

**DOT** 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.

# **Federal Regulations**

#### SARA 311/312 hazardous categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

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Chemical Name<br/>Ethylene glycolCAS-No<br/>107-21-1Weight % (max)<br/>5Sodium nitrite7632-00-00.5

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

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## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical NameCAS-NoWeight % (max)Ethylene glycol107-21-15

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

# **State Regulations**

#### **California Proposition 65**

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

## State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Titanium dioxide	X	X	X		X
Kaolin	X	Χ	X		X
Ethylene glycol	X	Χ	X		X
Carbon black	X	Χ	X		Х
Sodium nitrite	X	X	X		

#### Legend

X - Listed

#### 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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department

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Disclaimer

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**End of MSDS**