

Material Safety Data Sheet

Revision Date: 14-Feb-2013 Revision Number: 2

PRODUCT AND COMPANY IDENTIFICATION

Product Name BENJAMIN MOORE COLLECTION INTERIOR ALKYD SATIN DEEP

BASE

Product Code F2353B

Product Class SOLVENT THINNED PAINT

Color All

Manufacturer Emergency Telephone Number(s)

Benjamin Moore & Co.

CANUTEC: 613-996-6666

101 Paragon Drive

Montvale, NJ 07645

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Phone: 201-573-9600 www.benjaminmoore.com

Chemical Name	CAS-No	Weight % (max)
Limestone	1317-65-3	30 - 60%
Hydrotreated heavy naphtha, petroleum	64742-48-9	15 - 40%
Titanium dioxide	13463-67-7	5 - 10%
Ethyl benzene	100-41-4	0.1 - 0.25%
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 0.25%
Silica, crystalline	14808-60-7	0.1 - 0.25%

3. HAZARDS IDENTIFICATION

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Emergency Overview

WARNING

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

Combustible material.

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

Appearance liquid Odor solvent

Potential Health Effects

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

Acute Effects

EyesContact with eyes may cause irritation. **Skin**May cause skin irritation and/or dermatitis.

Inhalation High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs

and may cause headaches, dizziness, drowsiness, unconsciousness, and other

central nervous system effects.

Ingestion Ingestion may cause irritation to mucous membranes. Small amounts of this product

aspirated into the respiratory system during ingestion or vomiting may cause mild to

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severe pulmonary injury, possibly progressing to death.

Chronic Effects Avoid repeated exposure

Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of

inhalation exposure to spray mist or dust from sanding the dried paint.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS Health: 1* Flammability: 2 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 If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact

lenses and continue flushing for at least 15 minutes. Keep eye wide open while

rinsing. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

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

If not breathing, give artificial respiration. Call a physician immediately

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

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Foam, dry powder or water. 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 Combustible material. Closed containers may rupture if

exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and

vapors.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge Yes

Flash Point Data

Flash Point (°F) 119
Flash Point (°C) 48
Flash Point Method PMCC

Flammability Limits In Air

Upper Explosion LimitNot availableLower Explosion LimitNot available

NFPA Health: 1 Flammability: 2 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 Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if

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significant spillages cannot be contained.

Methods For Clean-UpDam up. Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers. Clean contaminated surface thoroughly.

Other Information None known

7. HANDLING AND STORAGE

Handling Use only in area provided with appropriate exhaust ventilation. Do not breathe

vapors or spray mist. Wear personal protective equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open

flames, hot surfaces and sources of ignition.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away

from heat. Keep in properly labeled containers.

DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or

waste in a sealed water-filled metal container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Limestone	N/E	10 mg/m ³ - TWA	10 mg/m ³ - TWA	N/E	10 mg/m³ -
			3 mg/m ³ - TWA		TWAEV
			20 mg/m ³ - STEL		

Hydrotreated heavy naphtha, petroleum	N/E	N/E	N/E	N/E	N/E
Titanium dioxide	10 mg/m³ - TWA	10 mg/m ³ - TWA	10 mg/m³ - TWA 3 mg/m³ - TWA	10 mg/m ³ - TWAEV	10 mg/m³ - TWAEV
Ethyl benzene	20 ppm - TWA	100 ppm - TWA 434 mg/m³ - TWA 125 ppm - STEL 543 mg/m³ - STEL	20 ppm - TWA	100 ppm - TWA 125 ppm - STEL	100 ppm - TWAEV 434 mg/m³ - TWAEV 125 ppm - STEV 543 mg/m³ - STEV
Cobalt bis(2- ethylhexanoate)	N/E	N/E	N/E	N/E	N/E
Silica, crystalline	0.025 mg/m ³ - TWA	0.1 mg/m ³ - TWA	0.025 mg/m³ - TWA	0.10 mg/m ³ - TWAEV designated substance regulation	

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

Skin Protection

Safety glasses with side-shields.

Long sleeved clothing. Protective gloves.

Respiratory Protection In operations where exposure limits are exceeded, use a NIOSH approved respirator

that has been selected by a technically qualified person for the specific work

conditions. When spraying the product or applying in confined areas, wear a NIOSH

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approved respirator specified for paint spray or organic vapors.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing

before re-use. Wash thoroughly after handling. When using do not eat, drink or

smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odor solvent Density (lbs/gal) 9.8 - 10.1**Specific Gravity** 1.17 - 1.21Not available Hq Viscosity (centistokes) Not available **Evaporation Rate** Not available **Vapor Pressure** Not available **Vapor Density** Not available Wt. % Solids 65 - 75Vol. % Solids 45 - 55 Wt. % Volatiles 25 - 35 Vol. % Volatiles 45 - 55 VOC Regulatory Limit (g/L) < 400 **Boiling Point (°F)** 279

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C) 137

Freezing Point (°F) Not available Freezing Point (°C) Not available

Flash Point (°F)

Flash Point (°C)

Flash Point Method

Upper Explosion Limit

Lower Explosion Limit

Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions. Hazardous polymerisation

does not occur.

Conditions To Avoid Keep away from open flames, hot surfaces, static electricity

and sources of ignition.

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Incompatible Materials Incompatible with strong acids and bases and strong

oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating

gases and vapors.

Possibility Of Hazardous Reactions None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Limestone

Titanium dioxide

LD50 Oral: 6,450 mg/kg (Rat) vendor data Sensitization: No sensitizing effects known.

Hydrotreated heavy naphtha, petroleum

LD50 Oral: > 5,000 mg/kg (Rat) vendor data LD50 Dermal: > 3,000 mg/kg (Rabbit)

LD50 Oral: > 10000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

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

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Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.) Sensitization: No sensitizing effects known.

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat) vendor data

Chronic Toxicity

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 Human Carcinogen		Listed
Ethyl benzene	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	2B - Possible Human Carcinogen		Listed
Cobalt bis(2-ethylhexanoate)		2B - Possible Human Carcinogen		
Silica, crystalline	A2 - Suspected Human Carcinogen	1 - Human Carcinogen	Known Human Carcinogen	Listed

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- 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."
- Cobalt and cobalt compounds are listed as possible human carcinogens by IARC (2B). However, there is inadequate evidence of the carcinogenicity of cobalt and cobalt compounds in 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

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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.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

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.

Empty Container Warning Emptied containers may retain product residue. Follow label warnings even after

container is emptied. Residual vapors may explode on ignition.

14. TRANSPORT INFORMATION

TDG

Proper Shipping Name Paint
Hazard Class 3
UN-No UN1263
Packing Group III

14. TRANSPORT INFORMATION

In Canada, Class 3 flammable liquids may be reclassified as non-regulated for domestic ground transportation if they meet the requirements of TDG General Exemption SOR/2008-34.

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ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer 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)

NPRI Parts 1-4

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

Chemical Name	CAS-No	Weight % (max)
Ethyl benzene	100-41-4	0.1 - 0.25%
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 0.25%

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

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)
Hydrotreated heavy naphtha, petroleum	64742-48-9	15 - 40%

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

B3 Combustible liquid

B6 Reactive flammable material

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/iyh-vsv/prod/paint-peinture e.html.

Prepared By Product Stewardship Department

Benjamin Moore & Co.

360 Route 206 - P.O. Box 4000

Flanders, NJ 07836

866-690-1961

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Revision Summary No information available

Disclaimer

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End of MSDS