

# **Material Safety Data Sheet**

Revision Date: 22-Oct-2009 Revision Number: 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ALKYD PORCH & FLOOR GREEN

Product Code F11240

Product Class SOLVENT THINNED PAINT

**Color** Green

Manufacturer Emergency Telephone Number(s)

Benjamin Moore & Co. CANUTEC: 613-996-6666

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

# 2. COMPOSITION INFORMATION ON COMPONENTS

**Hazardous Components** 

Chemical Name	CAS-No	Weight % (max)
Stoddard solvent	8052-41-3	15 - 40%
Limestone	1317-65-3	10 - 30%
Distillates, petroleum, hydrotreated light	64742-47-8	7 - 13 %
Linseed oil polymerized	67746-08-1	1 - 5%
Xylene	1330-20-7	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5%
Titanium dioxide	13463-67-7	0.1 - 1.0%
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1.0%
Ethyl benzene	100-41-4	0.1 - 1.0%

# 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.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, a small amount of clean sand may be added. Stir often during application.

Appearance liquid Odor solvent

### **Potential Health Effects**

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

**Acute Effects** 

**Eyes**Contact 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.

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, 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

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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.

**Protection Of First-Aiders** Use personal protective equipment.

5. 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) 107.00 Flash Point (°C) 41.67 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 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**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-Up Dam 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	<b>British Columbia</b>	Ontario	Quebec
Stoddard solvent	100 ppm - TWA	100 ppm - TWA	290 mg/m <sup>3</sup> - TWA	525 mg/m <sup>3</sup> - TWAEV	525 mg/m <sup>3</sup> -
		572 mg/m <sup>3</sup> - TWA	580 mg/m <sup>3</sup> - STEL		TWAEV
					100 ppm - TWAEV

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Limestone	N/E	10 mg/m <sup>3</sup> - TWA	10 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWAEV	10 mg/m³ -
			3 mg/m <sup>3</sup> - TWA	containing no	TWAEV
			20 mg/m <sup>3</sup> - STEL	asbestos and less	
			3	than 1% crystalline	
			. 0	silica	
Distillates, petroleum,	N/E	N/E	200 mg/m <sup>3</sup> - TWA	N/E	N/E
hydrotreated light			Skin absorption		
			can contribute to		
			overall exposure.		
Linseed oil polymerized	N/E	N/E	N/E	N/E	N/E
Xylene	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	435 mg/m <sup>3</sup> - TWAEV	100 ppm - TWAEV
	150 ppm - STEL	434 mg/m <sup>3</sup> - TWA	150 ppm - STEL	100 ppm - TWAEV	434 mg/m <sup>3</sup> -
		150 ppm - STEL		650 mg/m <sup>3</sup> - STEV	TWAEV
		651 mg/m <sup>3</sup> - STEL		150 ppm - STEV	651 mg/m <sup>3</sup> - STEV
					150 ppm - STEV
1,2,4-Trimethylbenzene	N/E	N/E	N/E	N/E	N/E
Titanium dioxide	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWAEV	10 mg/m <sup>3</sup> -
			3 mg/m³ - TWA		TWĂEV
Cobalt bis(2-	N/E	N/E	N/E	N/E	N/E
ethylhexanoate)					
Ethyl benzene	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV	100 ppm - TWAEV
	125 ppm - STEL	434 mg/m <sup>3</sup> - TWA	125 ppm - STEL	435 mg/m <sup>3</sup> - TWAEV	434 mg/m³ -
		543 mg/m <sup>3</sup> - STEL		125 ppm - STEV	TWAEV
		125 ppm - STEL		540 mg/m <sup>3</sup> - STEV	543 mg/m <sup>3</sup> - STEV
					125 ppm - STEV

#### 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

**Respiratory Protection** 

Safety glasses with side-shields.

Long sleeved clothing. Protective gloves.

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

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 (Ibs/gal) 8.5 - 8.8
Specific Gravity 1.01 - 1.06
pH Not available

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Viscosity (centistokes) Not available **Evaporation Rate** Not available **Vapor Pressure** Not available **Vapor Density** Not available Wt. % Solids 60 - 7045 - 55 Vol. % Solids Wt. % Volatiles 30 - 40 Vol. % Volatiles 45 - 55 **VOC Regulatory Limit (g/L)** < 400 **Boiling Point (°F)** 322 **Boiling Point (°C)** 161

Freezing Point (°F)
Freezing Point (°C)
Flash Point (°C)
Flash Point (°C)
Flash Point Method
Upper Explosion Limit
Lower Explosion Limit
Not available
Not available
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.

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

Stoddard solvent

LD50 Oral: > 5,000 mg/kg (Rat) LD50 Dermal: > 3160 mg/kg (Rabbit)

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LC50 Inhalation (Vapor): > 6.1 mg/L (Rat)

Limestone

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

Distillates, petroleum, hydrotreated light

LD50 Oral: > 5,000 mg/kg (Rat)

LD50 Dermal: > 3,000 mg/kg (Rabbit)

**Xylene** 

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Sensitization: No sensitizing effects known.

1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)

LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.)

Titanium dioxide

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

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

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.

# **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		Listed
		Carcinogen		
		2B - Possible		
Cobalt bis(2-ethylhexanoate)		Human		
		Carcinogen		
Ethyl benzene	A3	2B - Possible		Listed
		Human		
		Carcinogen		

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- 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**

### **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**

#### **Xylene**

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

#### 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. 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.

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# 14. TRANSPORT INFORMATION

### **TDG**

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

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.

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)**

#### NPRI Parts 1-4

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

Chemical Name	CAS-No	Weight % (max)	
Xylene	<del>1330-20-</del> 7	1 - 5%	
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5%	
Cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1.0%	
Ethyl benzene	100-41-4	0.1 - 1.0%	

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:

### 15. REGULATORY INFORMATION

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 Chemical Name
 CAS-No 8052-41-3
 Weight % (max) 15 - 40%

 Stoddard solvent
 8052-41-3
 15 - 40%

 Distillates, petroleum, hydrotreated light Xylene
 64742-47-8
 7 - 13 %

 Xylene
 1330-20-7
 1 - 5%

 1,2,4-Trimethylbenzene
 95-63-6
 0.5 - 1.5%

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**

B3 Combustible liquid
B6 Reactive flammable material
D2A Very toxic materials
D2B 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.

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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F11240 **End of MSDS**