



Material Safety Data Sheet

Revision Date: 20-Apr-2008

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER SPEC EXTERIOR ALKYD PRIMER
Product Code K176
Product Class SOLVENT THINNED PAINT
Color All

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

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

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

| Chemical Name | CAS-No | Weight % (max) |
|--|------------|----------------|
| Stoddard solvent | 8052-41-3 | 10 - 30% |
| Titanium dioxide | 13463-67-7 | 10 - 30% |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 7 - 13 % |
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 1 - 5% |
| Xylene | 1330-20-7 | 0.5 - 1.5% |
| Silica, crystalline | 14808-60-7 | 0.5 - 1.5% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 1.0% |
| Ethyl benzene | 100-41-4 | 0.1 - 1.0% |

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

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

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 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:** 2* **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 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 |
| Protection Of First-Aiders | Remove all sources of ignition. |

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) 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) | 104 |
| Flash Point (°C) | 40 |
| Flash Point Method | PMCC |

Flammability Limits In Air

| | |
|-----------------------|---------------|
| Upper Explosion Limit | Not available |
| Lower Explosion Limit | Not available |

NFPA **Health:** 2 **Flammability:** 2 **Instability:** 0 **Special:** -

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 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

| Chemical Name | ACGIH | Alberta | British Columbia | Ontario | Quebec |
|--|---|---|--|---|---|
| Stoddard solvent | TWA 100 ppm | TWA: 572 mg/m ³ , 100 ppm | STEL: 580 mg/m ³ TWA: 290 mg/m ³ | TWA: 525 mg/m ³ , | TWA: 525 mg/m ³ , 100 ppm |
| Titanium dioxide | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ , | TWA: 3 mg/m ³ TWA: 10 mg/m ³ | TWA: 10 mg/m ³ , | TWA: 10 mg/m ³ , |
| Distillates, petroleum, hydrotreated light | TWA: 200 mg/m ³ Non-aerosol. total hydrocarbon vapor Non-aerosol. total hydrocarbon vapor Can be absorbed through the skin. | N/E | TWA: 200 mg/m ³ Non-aerosol. total hydrocarbon vapor Can be absorbed through the skin. | TWA: 200 mg/m ³ , TWA: 525 mg/m ³ , Can be absorbed through the skin. | N/E |
| Solvent naphtha, petroleum, medium aliphatic | N/E | N/E | N/E | N/E | N/E |
| Xylene | TWA 100 ppm STEL: 150 ppm | STEL: 651 mg/m ³ , 150 ppm TWA: 434 mg/m ³ , 100 ppm | STEL: 150 ppm TWA: 100 ppm TWA: 0.5 ppm Vapor and aerosol, inhalable. Can be absorbed through the skin. | TWA: 435 mg/m ³ , 100 ppm STEL: 650 mg/m ³ , 150 ppm | STEL: 651 mg/m ³ , 150 ppm TWA: 434 mg/m ³ , 100 ppm |
| Silica, crystalline | TWA: 0.025 mg/m ³ Respirable fraction. | TWA: 0.1 mg/m ³ , | TWA: 0.025 mg/m ³ | TWA: 0.10 mg/m ³ , | TWA: 0.1 mg/m ³ , C2 Suspected carcinogenic effect in humans. |
| 1,2,4-Trimethylbenzene | TWA 25 ppm | TWA: 123 mg/m ³ , 25 ppm | TWA: 25 ppm | TWA: 123 mg/m ³ , 25 ppm | TWA: 123 mg/m ³ , 25 ppm |
| Ethyl benzene | TWA 100 ppm STEL: 125 ppm | STEL: 543 mg/m ³ , 125 ppm TWA: 434 mg/m ³ , 100 ppm | STEL: 125 ppm TWA: 100 ppm | TWA: 435 mg/m ³ , 100 ppm STEL: 540 mg/m ³ , 125 ppm | STEL: 543 mg/m ³ , 125 ppm TWA: 434 mg/m ³ , 100 ppm |

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**

Safety glasses with side-shields.

Skin Protection

Long sleeved clothing. Protective gloves.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

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 (lbs/gal) | 11.978 |
| Specific Gravity | 1.438 |
| pH | Not available |
| Viscosity (centistokes) | Not available |
| Evaporation Rate | Not available |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Wt. % Solids | 76.0 |
| Vol. % Solids | 56.0 |
| Wt. % Volatiles | 24.0 |
| Vol. % Volatiles | 43.8 |
| VOC (g/L) | < 350.0 |
| Boiling Point (°F) | Not available |
| Boiling Point (°C) | Not available |
| Freezing Point (°F) | Not available |
| Freezing Point (°C) | Not available |
| Flash Point (°F) | 104 |
| Flash Point (°C) | 40 |
| Flash Point Method | PMCC |
| Upper Explosion Limit | Not available |
| 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. |
| 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.

ComponentStoddard solvent

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

LD50 Dermal: > 3160 mg/kg (Rabbit)

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

Titanium dioxide

LD50 Oral: > 24000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

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

Distillates, petroleum, hydrotreated light

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

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

Solvent naphtha, petroleum, medium aliphatic

LD50 Oral: > 6240 mg/kg (Rat)

LD50 Dermal: > 3120 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 1400 ppm (Rat, 4 hr.)

Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

Silica, crystalline

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

1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)

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

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: 17800 µg/L (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)**Chronic Toxicity****Carcinogenicity**

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

| Chemical Name | ACGIH | IARC | NTP | OSHA Carcinogen |
|------------------|-------|--|-----|--------------------|
| Stoddard solvent | | 3 Classification not possible from current data. | | |
| Titanium dioxide | | 2B Possible carcinogen. | | |

| Chemical Name | ACGIH | IARC | NTP | OSHA Carcinogen |
|--|---|--|-------------------|-----------------|
| Distillates, petroleum, hydrotreated light | Group A3 Confirmed animal carcinogen with unknown relevance to humans. | 3 Classification not possible from current data. | | |
| Xylene | | 3 Classification not possible from current data. | | |
| Silica, crystalline | Group A2 Suspected human carcinogen. | 1 Human carcinogen. | Known carcinogen. | |
| Ethyl benzene | Group A3 Confirmed animal carcinogen with unknown relevance to humans. | 2B Possible carcinogen. | | |

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

ComponentAcute Toxicity to Fish

No information available

Titanium dioxide

LC50: >1000 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 protection agency for more disposal options.

14. TRANSPORT INFORMATION

TDG

Not regulated in small containers.

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:

| <u>Chemical Name</u> | <u>CAS-No</u> | <u>Weight % (max)</u> |
|------------------------|---------------|-----------------------|
| Xylene | 1330-20-7 | 0.5 - 1.5% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 1.0% |
| Ethyl benzene | 100-41-4 | 0.1 - 1.0% |

This product may contain trace amounts of (other) NPRI Parts 1-4 reportable chemicals. Contact Benjamin Moore & Co. for further information.

15. REGULATORY INFORMATION

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

| Chemical Name | CAS-No | Weight % (max) |
|--|---------------|-----------------------|
| Stoddard solvent | 8052-41-3 | 10 - 30% |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 7 - 13 % |
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 1 - 5% |
| Xylene | 1330-20-7 | 0.5 - 1.5% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 1.0% |

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
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/iyh-vsv/prod/paint-peinture_e.html.

Prepared By

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Revision Date:

20-Apr-2008

Revision Summary

No information available

Disclaimer

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End of MSDS