Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: UTILAC SPRAY FINISH
Product Code: 490
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):
CHEMTREC: 800-424-9300

Revision Date: 17-Jun-2009
Revision Number: 1

2. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight % (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>40</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>20</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>20</td>
</tr>
<tr>
<td>Isobutyl acetate</td>
<td>110-19-0</td>
<td>15</td>
</tr>
<tr>
<td>2-Propoxyethanol</td>
<td>2807-30-9</td>
<td>15</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>10</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>10</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>10</td>
</tr>
<tr>
<td>VM&amp;P naphtha</td>
<td>64742-89-8</td>
<td>10</td>
</tr>
<tr>
<td>2-Pentanone</td>
<td>107-87-9</td>
<td>5</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>5</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether acetate</td>
<td>108-65-6</td>
<td>5</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>5</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>1</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>0.5</td>
</tr>
<tr>
<td>Cobalt compound</td>
<td>136-52-7</td>
<td>0.5</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>0.5</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION
3. HAZARDS IDENTIFICATION

Emergency Overview

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

Appearance liquid Odor solvent

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS
Health: 2* Flammability: 4 Reactivity: 3 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.
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
Extremely flammable. 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) -4
Flash Point (°C) -20
Flash Point Method PMCC

Flammability Limits In Air
Lower Explosion Limit Not available
Upper Explosion Limit Not available

NFPA Health: 2 Flammability: 4 Instability: 3 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 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 AND PERSONAL PROTECTION

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>500 ppm - TWA</td>
<td>1000 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td>750 ppm - STEL</td>
<td>2400 mg/m³ - TWA</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm - TWA</td>
<td>200 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 ppm - Ceiling</td>
</tr>
<tr>
<td>Propane</td>
<td>1000 ppm - TWA</td>
<td>1000 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1800 mg/m³ - TWA</td>
</tr>
<tr>
<td>Isobutyl acetate</td>
<td>150 ppm - TWA</td>
<td>150 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>700 mg/m³ - TWA</td>
</tr>
<tr>
<td>2-Propoxyethanol</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Butane</td>
<td>1000 ppm - TWA</td>
<td>N/E</td>
</tr>
</tbody>
</table>
Limestone | N/E | 15 mg/m³ - TWA total 5 mg/m³ - TWA total
Titanium dioxide | 10 mg/m³ - TWA | 15 mg/m³ - TWA total
VM&P naphtha | N/E | N/E
2-Pentanone | 150 ppm - STEL | 200 ppm - TWA 700 mg/m³ - TWA
Talc | 2 mg/m³ - TWA | 20 mppcf - TWA
Propylene glycol monomethyl ether acetate | N/E | N/E
Xylene | 100 ppm - TWA 150 ppm - STEL | 100 ppm - TWA 435 mg/m³ - TWA
Carbon black | 3.5 mg/m³ - TWA | 3.5 mg/m³ - TWA
Ethyl benzene | 100 ppm - TWA 125 ppm - STEL | 100 ppm - TWA 435 mg/m³ - TWA
Cobalt compound | N/E | N/E
2-Butoxyethanol | 20 ppm - TWA | 240 mg/m³ - TWA 50 ppm - TWA prevent or reduce skin absorption

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration 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 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 (lbs/gal) | 6.0 - 7.0
Specific Gravity | 0.70 - 0.85
pH | Not available
Viscosity (centistokes) | Not available
Evaporation Rate | Not available
Vapor Pressure | Not available
Vapor Density | Not available
Wt. % Solids | 10 - 30
Vol. % Solids | 10 - 20
Wt. % Volatiles | 70 - 90
Vol. % Volatiles | 80 - 90
VOC (g/L) | Not applicable
Boiling Point (°F) | -47
Boiling Point (°C) | -44
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freezing Point (°F)</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>-4</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>-20</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>PMCC</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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**

- **Acetone**
  LD50 Oral: 5800 mg/kg (Rat)

- **Toluene**
  LD50 Oral: 636 mg/kg (Rat)
  LD50 Dermal: 14100 µL/kg (Rabbit)
  LC50 Inhalation (Vapor): 49000 mg/m³ (Rat, 4 hr.)

- **2-Propoxyethanol**
  LD50 Oral: 3089-3090 mg/kg (Rat)
  LD50 Dermal: 960 µL/kg (Rabbit)
  LC50 Inhalation (Vapor): 9060 mg/m³ (Rat)

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

Titanium dioxide
LD50 Oral: > 24000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m³ (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

2-Pentanone
LD50 Oral: 1600 mg/kg (Rat)
LD50 Dermal: 6500 mg/kg (Rabbit)

Talc
Sensitization: No information available

Propylene glycol monomethyl ether acetate
LD50 Oral: 8532 mg/kg (Rat)
LD50 Dermal: > 5000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): > 4345 ppm

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.

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

Ethyl benzene
LD50 Oral: 3500 mg/kg (Rat)
LD50 Dermal: 17800 µg/L (Rabbit)
LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)

Cobalt compound
LD50 Oral: 3900 mg/kg (Rat)

2-Butoxyethanol
LD50 Oral: 470 mg/kg (Rat)
LD50 Dermal: 220 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 450 ppm (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:
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
<tr>
<td>Carbon black</td>
<td></td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>A3</td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
<tr>
<td>Cobalt compound</td>
<td></td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>A3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.)

**2-Butoxyethanol**

LC50: 1490 mg/L (Bluegill sunfish - 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

DOT
Proper Shipping Name: Aerosols (Mixture)
Hazard Class: 2.1
UN-No: UN1950

May be shipped as Consumer Commodity ORM-D (US Ground).

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
No - Not all of the components are listed.
One or more component is listed on NDSL.

Federal Regulations

SARA 311/312 hazardous categorization

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight % (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>20</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>5</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight % (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>20</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>5</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Louisiana</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toluene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Propane</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Isobutyl acetate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Butane</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Limestone</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2-Pentanone</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Talc</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Xylene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Carbon black</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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
Benjamin Moore & Co.
360 Route 206 - P.O. Box 4000
Flanders, NJ 07836
973-252-2593

Revision Date: 17-Jun-2009
Revision Summary Not available

Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

End of MSDS