



SAFETY DATA SHEET

Revision Date: 12-Dec-2024

Revision Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|------------------------|--|
| Product Name | SATIN IMPERVO ALKYD LOW LUSTRE ENAMEL ULTRA BASE |
| Product Code | Z2354B |
| Alternate Product Code | Z2354B |
| Product Class | SOLVENT THINNED PAINT |
| Color | All |
| Recommended use | Paint |
| Restrictions on use | No information available |

Manufacturer
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
www.benjaminmoore.com

Emergency Telephone
CHEMTREC: +1 703-741-5970 / 1-800-424-9300
+1 703-527-3887 (outside US & Canada)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|-------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration hazard | Category 1 |
| Flammable liquids | Category 3 |

Label elements

| |
|---|
| Danger |
| Hazard statements Causes skin irritation Causes serious eye irritation |

May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor



Appearance liquid

Odor solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground and bond container and receiving equipment
Use only non-sparking tools
Take action to prevent static discharges
Keep cool
Wear protective gloves/clothing and eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

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

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No. | Weight-% |
|--|------------|-----------|
| Limestone | 1317-65-3 | 30 - 35 |
| Hydrotreated heavy naphtha, petroleum | 64742-48-9 | 20 - 25 |
| Odorless Mineral Spirits | 64741-65-7 | 5 - 10 |
| Xylene | 1330-20-7 | 1 - 5 |
| 1H-imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- | 95-38-5 | 0.5 - 1 |
| Ethyl benzene | 100-41-4 | 0.1 - 0.5 |
| Methyl ethyl ketoxime | 96-29-7 | 0.1 - 0.5 |
| Cobalt bis(2-ethylhexanoate) | 136-52-7 | 0.1 - 0.5 |
| Silica, crystalline | 14808-60-7 | 0.1 - 0.5 |

4. FIRST AID MEASURES**General Advice**

Immediate medical attention is required. 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 while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes. For severe burns, immediate medical attention is required.

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.

Protection Of First-Aiders Use personal protective equipment.

Most Important Symptoms/Effects May cause allergic skin reaction.

Notes To Physician Treat symptomatically.

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) 119
Flash Point (°C) 48
Method PMCC

Flammability Limits In Air

Lower flammability limit: No data available
Upper flammability limit: No data available

NFPA

| | |
|-----------------------|----------------|
| Health hazards | 2 |
| Flammability | 2 |
| Stability | 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. |
| Other Information | 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. |
| Environmental precautions | See Section 12 for additional Ecological Information. |
| Methods for Cleaning Up | Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |

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 away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. |

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.

| | |
|-------------------------------|---|
| Incompatible Materials | Incompatible with strong acids and bases and strong oxidizing agents. |
|-------------------------------|---|

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL |
|---------------|-------------|---|
| Limestone | - | 15 mg/m ³ - TWA 5 mg/m ³ - TWA |
| Xylene | TWA: 20 ppm | 100 ppm - TWA |

| | | |
|---------------------|---|---|
| | | 435 mg/m ³ - TWA |
| Ethyl benzene | Ototoxicant - potential to cause hearing disorders TWA: 20 ppm | 100 ppm - TWA 435 mg/m ³ - TWA |
| Silica, crystalline | TWA: 0.025 mg/m ³ respirable particulate matter | TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction |

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 If splashes are likely to occur, wear: Tightly fitting safety goggles

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

Odor Threshold

No information available

Density (lbs./gal)

9.4 - 9.8

Specific Gravity

1.12 - 1.17

pH

No information available

Viscosity (cps)

No information available

Solubility(ies)

No information available

Water solubility

No information available

Evaporation Rate

No information available

Vapor pressure @20 °C (kPa)

No information available

Relative vapor density

No information available

Wt. % Solids

65 - 75

| | |
|--------------------------------|--------------------------|
| Vol. % Solids | 45 - 55 |
| Wt. % Volatiles | 25 - 35 |
| Vol. % Volatiles | 45 - 55 |
| VOC Regulatory Limit (g/L) | < 400 |
| Boiling Point (°F) | 279 |
| Boiling Point (°C) | 137 |
| Freezing point (°F) | No information available |
| Freezing Point (°C) | No information available |
| Flash point (°F) | 119 |
| Flash Point (°C) | 48 |
| Method | PMCC |
| Flammability (solid, gas) | Not applicable |
| Upper flammability limit: | No data available |
| Lower flammability limit: | No data available |
| Autoignition Temperature (°F) | No information available |
| Autoignition Temperature (°C) | No information available |
| Decomposition Temperature (°F) | No information available |
| Decomposition Temperature (°C) | No information available |
| Partition coefficient | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | Not Applicable |
| 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

Product Information

Information on likely routes of exposure

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

Acute Toxicity

Product Information 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.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|---------------------------------|--|
| Eye contact | Contact with eyes may cause irritation. |
| Skin contact | May cause skin irritation and/or dermatitis. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| 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. |
| 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. |
| Sensitization | May cause an allergic skin reaction. |
| Neurological Effects | No information available. |
| Mutagenic Effects | No information available. |
| Reproductive Effects | May damage fertility or the unborn child. |
| Developmental Effects | No information available. |
| Target organ effects | No information available. |
| STOT - repeated exposure | Causes damage to organs through prolonged or repeated exposure if inhaled, Causes damage to organs through prolonged or repeated exposure. |
| STOT - single exposure | May cause disorder and damage to the, Respiratory system. |
| Other adverse effects | No information available. |
| Aspiration Hazard | May be harmful if swallowed and enters airways. 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. |

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--------------------------------------|-------------|
| ATEmix (oral) | 16870 mg/kg |
| ATEmix (dermal) | 10204 mg/kg |
| ATEmix (inhalation-dust/mist) | 125.5 mg/l |
| ATEmix (inhalation-vapor) | 2092.3 mg/l |

Component Information

Caution - This mixture contains a substance not yet fully tested

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|--------------------------|--------------------------------------|
| Hydrotreated heavy naphtha, petroleum 64742-48-9 | > 6000 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | > 8500 mg/m ³ (Rat) 4 h |
| Odorless Mineral Spirits 64741-65-7 | > 7000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.04 mg/L (Rat) 4 h |
| Xylene 1330-20-7 | = 3500 mg/kg (Rat) | > 4350 mg/kg (Rabbit) | = 29.08 mg/L (Rat) 4 h |
| Ethyl benzene 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |

| | | | |
|--|---------------------|------------------------------|-------------------------|
| Methyl ethyl ketoxime 96-29-7 | = 930 mg/kg (Rat) | 1000 - 1800 mg/kg (Rabbit) | > 4.83 mg/L (Rat) 4 h |
| Cobalt bis(2-ethylhexanoate) 136-52-7 | - | > 5000 mg/kg (Rabbit) | > 10 mg/L (Rat) 1 h |

Chronic Toxicity

Carcinogenicity

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

| Chemical name | IARC | NTP | OSHA |
|------------------------------|--------------------------------|---|--------|
| Ethyl benzene | 2B - Possible Human Carcinogen | | Listed |
| Cobalt bis(2-ethylhexanoate) | 2B - Possible Human Carcinogen | Reasonably Anticipated Human Carcinogen | Listed |
| Silica, crystalline | 1 - Human Carcinogen | Known | X |

- 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.
- 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

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Persistence / Degradability

No information available.

Bioaccumulation

There is no data for this product.

Mobility in Environmental Media

No information available.

Ozone

Not applicable

Component Information

Acute Toxicity to Fish

Xylene

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

Ethyl benzene

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

Methyl ethyl ketoxime

LC50: 48 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene

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

Methyl ethyl ketoxime

EC50: 750 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, 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

DOT

| | |
|-----------------------------------|-----------------------|
| Proper Shipping Name | Paint |
| Transport hazard class(es) | 3 |
| UN-No | UN1263 |
| Packing Group | III |
| Description | UN1263, Paint, 3, III |

In the US this material may be reclassified as a Combustible Liquid and is not regulated in containers of less than 119 gallons (450 liters) via surface transportation (refer to 49CFR173.120(b)(2) for further information).

ICAO / IATA Contact the preparer for further information.

IMDG / IMO Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United States Yes - All components are listed or exempt.
DSL: Canada Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | Yes |
| 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

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>CERCLA/SARA 313 (de minimis concentration)</u> |
|----------------------|----------------|-----------------|---|
| Xylene | 1330-20-7 | 1 - 5 | 1.0 |
| Ethyl benzene | 100-41-4 | 0.1 - 0.5 | 0.1 |

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

This product contains the following HAPs:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>Hazardous Air Pollutant (HAP)</u> |
|------------------------------|----------------|-----------------|--|
| Xylene | 1330-20-7 | 1 - 5 | Listed |
| Ethyl benzene | 100-41-4 | 0.1 - 0.5 | Listed |
| Cobalt bis(2-ethylhexanoate) | 136-52-7 | 0.1 - 0.5 | Listed |

US State Regulations

California Proposition 65

 **WARNING:** This product can expose you to chemicals including Crystalline Silica, which are known to the State of California to cause cancer, and Toluene which are known to the State of California to cause birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

**U.S. State Right-to-Know
Regulations**

| Chemical name | Massachusetts | New Jersey | Pennsylvania |
|------------------------------|---------------|------------|--------------|
| Limestone | X | X | X |
| Xylene | X | X | X |
| Cobalt bis(2-ethylhexanoate) | | X | X |
| Silica, crystalline | X | X | X |

Legend

X - Listed

16. OTHER INFORMATION

HMIS

| | |
|---------------------|----|
| Health hazards | 2* |
| Flammability | 2 |
| Reactivity: | 0 |
| Personal protection | - |

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.

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

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Benjamin Moore & Co.
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Montvale, NJ 07645

800-225-5554

Revision Date: 12-Dec-2024
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 Safety Data Sheet