# SAFETY DATA SHEET

**Revision Date:** *30-Aug-2023* **Revision Number:** *1*

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| **Product Name** | **HP CONCRETE AND METAL EPOXY PRIMER - CATALYST** |
| **Product Code** | **HP1550-90** |
| **Alternate Product Code** | UA4990 |
| **Product Class** | CATALYST |
| **Color** | Light yellow |
| **Recommended use** | Industrial 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)

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Flammable liquids | Category 3 |

**Label elements**

**Danger**

**Hazard statements**
Harmful if swallowed
Harmful if inhaled
Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction
Suspected of causing cancer
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
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
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

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician
**Eyes**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
**Skin**
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention
**Inhalation**
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
**Ingestion**
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
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 cool

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not applicable

**Other information**
No information available

**IMPORTANT:** Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---|---|---|
| 1,2-Ethanediamine, N,N-bis(1,3-dimethylbutylidene)- | 25707-70-4 | 80 - 85 |
| Phenol, 2,4,6-tris[(dimethylamino)methyl]- | 90-72-2 | 5 - 10 |
| Benzyl alcohol | 100-51-6 | 1 - 5 |
| Ethylenediamine | 107-15-3 | 1 - 5 |
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5 |

## 4. FIRST AID MEASURES

**General Advice** — If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact** — Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

**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.

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

**Most Important Symptoms/Effects** — No information available.

**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)** | 135 |
| **Flash Point (°C)** | 57 |
| **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.

**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 |
|---|---|---|
| Ethylenediamine | TWA: 10 ppm<br>S* | 10 ppm - TWA<br>25 mg/m³ - TWA |
| 2-Pentanone, 4-methyl- | STEL: 75 ppm<br>TWA: 20 ppm | 100 ppm - TWA<br>410 mg/m³ - TWA |

**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** Tightly fitting safety goggles If splashes are likely to occur, wear: 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 |
| **Odor Threshold** | No information available |
| **Density (lbs./gal)** | 7.2 - 7.6 |
| **Specific Gravity** | 0.86 - 0.91 |
| **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** | 90 - 100 |
| **Vol. % Solids** | 90 - 100 |
| **Wt. % Volatiles** | 0 - 10 |
| **Vol. % Volatiles** | 0 - 10 |
| **VOC Regulatory Limit (g/L)** | < 100 |
| **Boiling Point (°F)** | 212 |
| **Boiling Point (°C)** | 100 |
| **Freezing point (°F)** | No information available |
| **Freezing Point (°C)** | No information available |
| **Flash point (°F)** | 135 |
| **Flash Point (°C)** | 57 |
| **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** | Severely irritating to eyes. May cause burns. Risk of serious damage to eyes. |
| **Skin contact** | May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis. |
| **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** | No information available. |
| **Neurological Effects** | No information available. |
| **Mutagenic Effects** | No information available. |
| **Reproductive Effects** | No information available. |
| **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, Central nervous system. |
| **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)** | 559 mg/kg |
| **ATEmix (inhalation-dust/mist)** | 1.7 mg/l |
| **ATEmix (inhalation-vapor)** | 13.2 mg/l |

**Component Information**

Caution - This mixture contains a substance not yet fully tested

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| 1,2-Ethanediamine, N,N-bis(1,3-dimethylbutylidene)-<br>25707-70-4 | = 500 mg/kg (Rat) | - | - |
| Phenol, 2,4,6-tris[(dimethylamino)methyl]-<br>90-72-2 | = 1200 mg/kg ( Rat ) | = 1280 mg/kg ( Rat ) | - |
| Benzyl alcohol<br>100-51-6 | = 1230 mg/kg ( Rat ) | = 2 g/kg ( Rabbit ) | = 8.8 mg/L ( Rat ) 4 h |
| Ethylenediamine<br>107-15-3 | = 637 mg/kg ( Rat ) | = 560 mg/kg ( Rabbit ) | 4916 - 9832 mg/m³ ( Rat ) 8 h |
| 2-Pentanone, 4-methyl-<br>108-10-1 | = 2080 mg/kg ( Rat ) | = 3000 mg/kg ( Rabbit ) | 2000 - 4000 ppm ( Rat ) 4 h |

**Chronic Toxicity**

**Carcinogenicity**

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

| Chemical name | IARC | NTP | OSHA |
|---|---|---|---|
| 2-Pentanone, 4-methyl- | 2B - Possible Human Carcinogen | | Listed |

**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**
No information available

**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. 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 related material, corrosive, flammable |
| **Transport hazard class(es)** | 8 |
| **Subsidiary Class** | 3 |
| **UN-No** | UN3470 |
| **Packing Group** | II |
| **Description** | UN3470, Paint related material, corrosive, flammable, 8 (3), II |

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

| Chemical name | CAS No | Weight-% | CERCLA/SARA 313 (de minimis concentration) |
|---|---|---|---|
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5 | 1.0 |

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

This product contains the following HAPs:

| Chemical name | CAS No | Weight-% | Hazardous Air Pollutant (HAP) |
|---|---|---|---|
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5 | Listed |

## US State Regulations

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including Methyl isobutyl ketone, which are known to the State of California to cause cancer and 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 |
|---|---|---|---|
| Benzyl alcohol | X | | X |
| Ethylenediamine | X | X | X |
| 2-Pentanone, 4-methyl- | 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**
Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
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800-225-5554

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**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**