

Revision Date: 09-Apr-2024 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP ALIPHATIC URETHANE SEMI-GLOSS - CLEAR BASE

Product Code HP5010-9BFR

Alternate Product Code UF149B

Product Class FINISH COATING

Color All

Recommended use Industrial paint

Restrictions on use No information available

Manufactured For

Benjamin Moore & Co., Limited

8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898

www.benjaminmoore.com/en-ca

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)

CANUTEC: 613-996-6666 (Transport Emergency Only)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

| Skin sensitization | Category 1 |
|--|-------------|
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Highly flammable liquid and vapor



Appearance liquid

Odor solvent

Revision Date: 09-Apr-2024

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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

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

Wash contaminated clothing before reuse

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

Inhalation

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

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

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.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--|-------------|-------------|---|---|
| n-Butyl acetate | 123-86-4 | 10 - 30% | - | - |
| t-Butyl acetate | 540-88-5 | 7 - 13% | - | - |
| Silica, amorphous, fumed | 112945-52-5 | 3 - 7% | - | - |
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | - | - |
| Xylene | 1330-20-7 | 1 - 5% | - | - |
| Ethyl benzene | 100-41-4 | 1 - 5% | - | - |
| Poly(oxy-1,2-ethanediyl), .alpha[3-[3-(2H-benzotriazol-2- yl)-5-(1,1-dimethylethyl)-4-hydro xyphenyl]-1-oxopropyl]omega hydroxy- | 104810-48-2 | 0.1 - 0.25% | - | - |
| Poly(oxy-1,2-ethanediyl), .alpha[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydro xyphenyl]-1-oxopropyl]omega [3-[3-(2H-benzotriazol-2-yl)-5-(1, 1-dimethylethyl)-4-hydroxyphen yl]-1-oxoprop | 104810-47-1 | 0.1 - 0.25% | - | - |
| Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-pip eridinyl) ester | 41556-26-7 | 0.1 - 0.25% | - | - |

Confidential Business Information note

*The exact percentage (concentration) of composition has been withheld as a trade secret

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

Revision Date: 09-Apr-2024

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.

Revision Date: 09-Apr-2024

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

Flammable Properties Vapors may travel considerable distance to a source of

ignition and flash back. Vapors may cause flash fire.

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.

Hazardous combustion productsBurning may result in carbon dioxide, carbon monoxide

and other combustion products of varying composition

which may be toxic and/or irritating.

Specific Hazards Arising From The Chemical Flammable. Flash back possible over considerable

distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. 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) 40
Flash Point (°C) 4
Method PMCC

Flammability Limits In Air

Lower flammability limit:

Upper flammability limit:

No data available

No data available

NFPA

Health hazards 2
Flammability 3
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 Remove all sources of ignition. Take precautions to

prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

Revision Date: 09-Apr-2024

protective equipment.

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 precautionsSee Section 12 for additional Ecological Information.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Use a

non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean

contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wear personal

protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

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 heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

Revision Date: 09-Apr-2024

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 | Alberta | British Columbia | Ontario | Quebec |
|------------------------|-------------------------|------------------------------|------------------|----------------|-------------------------------|
| n-Butyl acetate | STEL: 150 ppm | 150 ppm - TWA | 20 ppm - TWA | 150 ppm - TWA | 150 ppm - TWAEV |
| | TWA: 50 ppm | 713 mg/m ³ - TWA | | 200 ppm - STEL | 713 mg/m³ - TWAEV |
| | | 200 ppm - STEL | | | 200 ppm - STEV |
| | | 950 mg/m ³ - STEL | | | 950 mg/m³ - STEV |
| t-Butyl acetate | STEL: 150 ppm | 200 ppm - TWA | 200 ppm - TWA | 200 ppm - TWA | 200 ppm - TWAEV |
| | TWA: 50 ppm | 950 mg/m³ - TWA | | | 950 mg/m ³ - TWAEV |
| 2-Pentanone, 4-methyl- | STEL: 75 ppm | 50 ppm - TWA | 20 ppm - TWA | 20 ppm - TWA | 50 ppm - TWAEV |
| | TWA: 20 ppm | 205 mg/m ³ - TWA | 75 ppm - STEL | 75 ppm - STEL | 205 mg/m³ - TWAEV |
| | | 75 ppm - STEL | | | 75 ppm - STEV |
| | | 307 mg/m ³ - STEL | | | 307 mg/m ³ - STEV |
| Xylene | TWA: 20 ppm | 100 ppm - TWA | 100 ppm - TWA | 100 ppm - TWA | 100 ppm - TWAEV |
| | | 434 mg/m³ - TWA | 150 ppm - STEL | 150 ppm - STEL | 434 mg/m³ - TWAEV |
| | | 150 ppm - STEL | | | 150 ppm - STEV |
| | | 651 mg/m ³ - STEL | | | 651 mg/m ³ - STEV |
| Ethyl benzene | Ototoxicant - potential | 100 ppm - TWA | 20 ppm - TWA | 20 ppm - TWA | 100 ppm - TWAEV |
| | to cause hearing | 434 mg/m³ - TWA | | | 434 mg/m³ - TWAEV |
| | disorders | 125 ppm - STEL | | | 125 ppm - STEV |
| | TWA: 20 ppm | 543 mg/m ³ - STEL | | | 543 mg/m ³ - 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

Safety glasses with side-shields If splashes are likely to

Skin Protection Respiratory Protection occur, wear: Tightly fitting safety goggles Protective gloves and impervious clothing.

Use only with adequate ventilation. 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.

Revision Date: 09-Apr-2024

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odor solvent

Odor Threshold No information available

 Density (lbs./gal)
 8.3 - 8.7

 Specific Gravity
 0.99 - 1.04

pHNo information availableViscosity (cps)No information availableSolubility(ies)No information available

Water solubility

Evaporation Rate

Vapor pressure @20 °C (kPa)

No information available
No information available
No information available

Relative vapor densityNo information availableWt. % Solids50 - 60Vol. % Solids45 - 55Wt. % Volatiles40 - 50

Vol. % Volatiles45 - 55VOC Regulatory Limit (g/L)< 340</th>Boiling Point (°F)208Boiling Point (°C)98

Freezing point (°F)

Freezing Point (°C)

No information available
No information available

Flash point (°F) 40
Flash Point (°C) 4
Method PMCC

Flammability (solid, gas)
Upper flammability limit:
Not applicable
Not applicable
Not applicable

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition coefficientNo 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. Sparks. Elevated

Revision Date: 09-Apr-2024

temperature.

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

Eve contactContact with eyes may cause irritation.

Skin contact May cause skin irritation and/or dermatitis. Prolonged skin

contact may defat the skin and produce dermatitis.

Inhalation Harmful by 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 Harmful if swallowed. 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.

Sensitization May cause an allergic skin reaction.

Neurological EffectsNo information available.Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.Target organ effectsNo information available.

STOT - single exposure May cause disorder and damage to the, Respiratory

system, Central nervous system.

STOT - repeated exposure Causes damage to organs through prolonged or repeated

exposure.

Revision Date: 09-Apr-2024

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) 12244 mg/kg
ATEmix (inhalation-dust/mist) 8.9 mg/l
ATEmix (inhalation-vapor) 132.7 mg/l

Component Information

Caution - This mixture contains a substance not yet fully tested

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---------------------|----------------------------------|-------------------------------|
| n-Butyl acetate | = 10768 mg/kg (Rat) | > 17600 mg/kg (Rabbit) | - |
| 123-86-4 | | | |
| t-Butyl acetate | = 4100 mg/kg (Rat) | > 2000 mg/kg (Rabbit) > 2 g/kg (| > 9482 mg/m³ (Rat) 4 h > 2230 |
| 540-88-5 | | Rabbit) | mg/m³ (Rat)4 h |
| Silica, amorphous, fumed 112945-52-5 | = 3160 mg/kg (Rat) | - | - |
| 2-Pentanone, 4-methyl- 108-10-1 | = 2080 mg/kg (Rat) | = 3000 mg/kg (Rabbit) | 2000 - 4000 ppm (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 |
| Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidi nyl) ester 41556-26-7 | = 2615 mg/kg (Rat) | - | - |

Chronic Toxicity

Carcinogenicity

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

| Chemical name | IARC | NTP | |
|------------------------|--------------------------------|-----|--|
| | 2B - Possible Human Carcinogen | | |
| 2-Pentanone, 4-methyl- | _ | | |
| · | 2B - Possible Human Carcinogen | | |
| Ethyl benzene | | | |

Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Revision Date: 09-Apr-2024

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

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Xylene

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

Ethyl benzene

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

Acute Toxicity to Aquatic Invertebrates

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

Ethyl benzene

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

Acute Toxicity to Aquatic Plants

n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

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. Local requirements may vary,

consult your sanitation department or state-designated environmental protection agency for more disposal options.

Revision Date: 09-Apr-2024

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

TDG

Proper Shipping NamePaintTransport hazard class(es)3UN-NoUN1263

Packing Group

Description UN1263, Paint, 3, II

ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United StatesYes - All components are listed or exempt.

No - Not all of the components are listed.

One or more component is listed on NDSL.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

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

| Chemical name | CAS No. | Weight-% | NPRI Parts 1- 4 |
|------------------------|-----------|----------|-----------------|
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | Listed |
| Xylene | 1330-20-7 | 1 - 5% | Listed |
| Ethyl benzene | 100-41-4 | 1 - 5% | Listed |

Revision Date: 09-Apr-2024

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

| Chemical name | CAS No. | Weight-% | NPRI Part 5 |
|------------------------|-----------|----------|-------------|
| n-Butyl acetate | 123-86-4 | 10 - 30% | Listed |
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | Listed |
| Xvlene | 1330-20-7 | 1 - 5% | Listed |

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

16. OTHER INFORMATION

HMIS

Health hazards 2
Flammability 3
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 logging onto Health Canada at

Revision Date: 09-Apr-2024

http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

800-225-5554

Revision Date: 09-Apr-2024 **Reason for revision** 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