

Bulldog Waterborne Adhesion Promoter

Revision: 08/07/2018

Supersedes Revision: 04/20/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Bulldog Waterborne Adhesion Promoter
Company Name: W. M. Barr
 2105 Channel Avenue
 Memphis, TN 38113
Phone Number: (901)775-0100

Web site address: www.wmbarr.com

Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
Information: W.M. Barr Customer Service (800)398-3892

Intended Use: Paint adhesion.

Product Code: QWB171, WWB171

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 3

Toxic To Reproduction, Category 1B

GHS Signal Word: Danger

GHS Hazard Phrases: H316: Causes mild skin irritation.
 H360: May damage fertility or the unborn child.

GHS Precaution Phrases: P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P281: Use personal protective equipment as required.

GHS Response Phrases: P308+313: IF exposed or concerned: Get medical attention/advice.
 P332+313: If skin irritation occurs, get medical advice/attention.

GHS Storage and Disposal Phrases: P405: Store locked up.
 P501: Dispose of contents/container according to local, state and federal regulations.

Potential Health Effects (Acute and Chronic): No data available.

Medical Conditions Generally Aggravated By Exposure: Respiratory conditions (asthma)

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Hazardous Components (Chemical Name) | Concentration |
|------------|---|---------------|
| 25265-77-4 | Texanol {Ester alcohol; 2,2,4-trimethyl-1,3-pentanediol} | 0.5 -1.5 % |
| 872-50-4 | N-Methyl-2-pyrrolidone {2-Pyrrolidinone, 1-Methyl-; 1-Methylazacyclopentan-2-one} | 1.5 -2.5 % |
| 111-76-2 | Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)} | 0.5 -1.5 % |
| 107-21-1 | Ethylene glycol | 0.1 -1.0 % |

Additional Chemical Information Specific percentage of composition is being withheld as a trade secret.

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4. FIRST AID MEASURES**Emergency and First Aid Procedures:****Skin:**

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

Signs and Symptoms Of Exposure:

See Potential Health Effects.

5. FIRE FIGHTING MEASURES**Flash Pt:**

NP

Explosive Limits:

LEL: na UEL: na

Autoignition Pt:

NP

Suitable Extinguishing Media: Water spray, dry powder, carbon dioxide, foam.

Unsuitable Extinguishing Media:

None known.

Fire Fighting Instructions:

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards:

Flashpoint: This material does not exhibit a flashpoint per the Setaflash Closed Cup test method.

Material will not support combustion.

Additional Fire Fighting Information

NP = Not applicable

6. ACCIDENTAL RELEASE MEASURES**Steps To Be Taken In Case Material Is Released Or Spilled:**

Isolate the immediate area. Prevent unauthorized entry. Eliminate all sources of ignition in area and downwind of the spill area. Stay upwind, out of low areas, and ventilate closed spaces before entering. All equipment used when handling this product must be grounded or non-sparking. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers. For large spills, dike ahead of the spill.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Avoid breathing of vapors or mist. Avoid contact with eyes and skin.

A source of clean water should be available in or near the work area for flushing of the eyes and skin if contact occurs.

Precautions To Be Taken in Storing: Store in a cool place in original container and protect from sunlight.

Do not store near flames or at elevated temperatures.

Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|------------|---|-------------|---------------------|--------------|
| 25265-77-4 | Texanol {Ester alcohol; 2,2,4-trimethyl-1,3-penta nediol} | No data. | No data. | No data. |
| 872-50-4 | N-Methyl-2-pyrrolidone {2-Pyrrolidinone, 1-Methyl-; 1-Methylazacyclopentan-2-one} | No data. | No data. | No data. |
| 111-76-2 | Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)} | PEL: 50 ppm | TLV: 20 ppm | No data. |
| 107-21-1 | Ethylene glycol | No data. | CEIL: 100 mg/m3 (H) | No data. |

Respiratory Equipment (Specify Type): For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

Eye Protection: Safety glasses should be worn during normal handling of this material.

Where contact with the eyes or face is likely, a faceshield or chemical splash goggles should be worn to prevent eye contact.

Protective Gloves: Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing: Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas

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where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

Work/Hygienic/Maintenance Practices: Wash hands thoroughly after use and before eating, drinking, or smoking.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical States: | [] Gas [X] Liquid [] Solid |
| Appearance and Odor: | Cloudy, clear sticky liquid. |
| Melting Point: | 32.00 F |
| Boiling Point: | 212.00 F |
| Autoignition Pt: | NP |
| Flash Pt: | NP |
| Explosive Limits: | LEL: na UEL: na |
| Specific Gravity (Water = 1): | 1.01 |
| Density: | 8.40 LB/GL |
| Vapor Pressure (vs. Air or mm Hg): | No data. |
| Vapor Density (vs. Air = 1): | < 1 |
| Evaporation Rate: | No data. |
| Solubility in Water: | Complete |
| Percent Volatile: | 85.0 % by weight. |
| VOC / Volume: | <= 540.0000 G/L |
| Additional Physical Information | Max VOC Content: 540 g/L VOC Coating (VOC Regulatory): 236 g/L = 4.4 % = 1.97 lbs/gal excluding water and exempt solvents (Regulatory or Coatings VOC calculation) VOC Content: 42 g/L = 4 % (Actual VOC) |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability: | Unstable [] Stable [X] |
| Conditions To Avoid - Instability: | No data available. |
| Incompatibility - Materials To Avoid: | Strong acids, strong oxidizers, mineral acids, bases. |
| Hazardous Decomposition or Byproducts: | Carbon monoxide, carbon dioxide, aldehydes, ketones, organic acids, chlorine compounds, nitrogen oxides. |
| Possibility of Hazardous | Will occur [] Will not occur [X] |

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Reactions:

Conditions To Avoid - No data available.**Hazardous Reactions:****11. TOXICOLOGICAL INFORMATION****Toxicological Information:** This product has not been tested as a whole.

CAS# 872-50-4:

Reproductive Effects:, TDLo, Inhalation, Rat, 116.0 PPM, 6 H, multigenerations.

Result:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- Drug and Chemical Toxicology., Marcel Dekker, 270 Madison Ave., New York, NY 10016, Vol/p/yr: 18,271, 1995

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, Moderate.

Result:

Blood:Other hemolysis with or without anemia.

Blood:Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- Food and Chemical Toxicology., Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, Vol/p/yr: 26,475, 1988

CAS# 111-76-2:

Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.

Result:

Behavioral: Ataxia.

Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 68,405, 1983

Acute toxicity, LD50, Skin, Species: Rabbit, 220.0 MG/KG.

Result:

Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord).

Effects on Embryo or Fetus: Other effects to embryo.

Specific Developmental Abnormalities: Musculoskeletal system.

- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment Research, Toxicology Research Lab, Midland, MI 48640, Vol/p/yr: MSD-46,

Acute toxicity, LD50, Oral, Rat, 250.0 mg/kg.

Result:

Lungs, Thorax, or Respiration:Changes in pulmonary vascular resistance.

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, Severe.

Result:

Effects on Newborn: Apgar score (human only).

Effects on Newborn: Other neonatal measures or effects.

Effects on Newborn: Drug dependency.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

This product has not been tested as a whole.

Carcinogenicity/Other Information:

IARC 3: Not Classifiable as to Carcinogenicity in Humans.

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|------------|---|------|------|-------|------|
| 25265-77-4 | Texanol {Ester alcohol; 2,2,4-trimethyl-1,3-penta nediol} | n.a. | n.a. | n.a. | n.a. |
| 872-50-4 | N-Methyl-2-pyrrolidone {2-Pyrrolidinone, 1-Methyl-; 1-Methylazacyclopentan-2-one} | n.a. | n.a. | n.a. | n.a. |
| 111-76-2 | Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)} | n.a. | 3 | A3 | n.a. |
| 107-21-1 | Ethylene glycol | n.a. | n.a. | A4 | n.a. |

12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a whole.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|------------|---|--------------|-------------|---------------|
| 25265-77-4 | Texanol {Ester alcohol; 2,2,4-trimethyl-1,3-penta nediol} | No | No | No |
| 872-50-4 | N-Methyl-2-pyrrolidone {2-Pyrrolidinone, 1-Methyl-; 1-Methylazacyclopentan-2-one} | No | No | Yes |
| 111-76-2 | Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)} | No | No | Yes-Cat. N230 |
| 107-21-1 | Ethylene glycol | No | Yes 5000 LB | Yes |

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|------------|---|---|
| 25265-77-4 | Texanol {Ester alcohol; 2,2,4-trimethyl-1,3-penta nediol} | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 872-50-4 | N-Methyl-2-pyrrolidone {2-Pyrrolidinone, 1-Methyl-; 1-Methylazacyclopentan-2-one} | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox. |
| 111-76-2 | Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)} | CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 107-21-1 | Ethylene glycol | CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox. |

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Additional Regulatory Information

This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

16. OTHER INFORMATION**Revision Date:** 08/07/2018**Preparer Name:** W.M. Barr EHS Dept (901)775-0100**Additional Information About This Product:** No data available.**Company Policy or****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, state and local laws and regulations.