



Fire Protection Products, Inc.
 3198 Lionshead Avenue
 Carlsbad, CA 92010
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MATERIAL SAFETY DATA SHEET

Last Updated: 2013/06/03

Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PipeFit® Markers

| | |
|--|---|
| PipeFit® VAPM white | PipeFit® VAPM orange |
| PipeFit® VAPM yellow | PipeFit® VAPM red |
| <u>Manufacturer Information</u> Fire Protection Products, Inc. 3198 Lionshead Avenue Carlsbad, CA 92010 Phone: (760) 599-1168 Fax: (800) 344-3775 | <u>Emergency Contact</u> CHEMTREC 1300 Wilson Boulevard Arlington, VA 22209-2380 Phone: (800)424-9300 International: +1 (703) 527-3887 |
| CAS Registry Number | Not applicable |
| Chemical Family | Mixture |
| Product Type | Marker for metal, wood, glass, plastic, rubber, cardboard and paper. |
| Preparation/Revision Date | 03/21/2012 |

Section 2 COMPOSITION/INFORMATION ON INGREDIENTS


| Component Name | CAS Number | OSHA PEL | ACGIH TLV | % (Optional) |
|----------------------|------------|----------|-----------|--------------|
| 1-methoxypropan-2-ol | 107-98-2 | 100 ppm | 100 ppm | 40 - 70 |
| Ethanol | 64-17-5 | 1000 ppm | 1000 ppm | 10 - 16 |
| Isopropyl alcohol | 67-63-0 | 200 ppm | 400 ppm | 0.5 – 2.5 |
| Ethyl Acetate | 141-78-6 | 400 ppm | 400 ppm | 0.1 – 1.1 |

Section 3 HAZARDS IDENTIFICATION

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|----------------------------|--|
| Principal Hazard(s) | The paint inside the marker contains components which are flammable and considered hazardous by inhalation of vapors, eye and skin contact. Exposure to hazardous or dangerous substances is not expected when handling this product for its intended use. |
|----------------------------|--|

Section 4 FIRST AID MEASURES

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|-------------------|--|
| Oral | If irritation or discomfort occurs, obtain medical advice immediately. |
| Eye | No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice. |
| Skin | No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice. |
| Inhalation | If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice. |

| Section 5 | | FIRE FIGHTING MEASURES |
|---|---|---|
| Flash Point | 31°C (88°F) setaflash for 1-methoxypropan-2-ol | |
| Upper Flammable Limit | 1.5 % for 1-methoxypropan-2-ol | |
| Lower Flammable Limit | 13.74% for 1-methoxypropan-2-ol | |
| Extinguishing Media | <p>For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Use water spray to cool fire-exposed containers.</p> <p>If involved in a fire, combustion may produce toxic and irritating fumes and gases.</p> | |
| Special Firefighting Procedures | Wear appropriate self-contained breathing apparatus and protective clothing for firefighting. | |
| Unusual Fire and Explosion Hazards | Paint contained within the markers is flammable. | |
| Auto Ignition Temperature | 287°C (594°F) for 1-methoxypropan-2-ol | |
| NFPA | Health: 0 Flammability: 1 Instability: 0 |  |
| Section 6 | | ACCIDENTAL RELEASE MEASURES |
| Personal Precautions | If large volumes of liquid paint are released, wear protective gloves. Ventilate the area. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits. | |
| Environmental Precautions | Prevent the product from entering sewers or waterways. | |
| Methods for Containment | If large volumes of liquid paint are released, stop the leak if it is safe to do so. Contain spilled paint with earth, sand, or absorbent material which does not react with spilled material. | |
| Methods for Clean Up | Pick up spilled product and collect for re-use or proper disposal. Dispose of any contaminated, unusable product as described in Section 13 of this SDS. | |
| Section 7 | | HANDLING AND STORAGE |
| Handling | Avoid contact with eyes and skin; do not breathe fumes. Do not use near sources of extreme heat. Keep out of reach of children. | |
| Storage | Store in a cool, dry area, out of direct sunlight and away from heat, flames and ignition sources. Keep markers closed when not in use. | |

| Section 8 | | EXPOSURE CONTROLS/ PERSONAL PROTECTION | |
|---|---|--|--|
| Engineering Controls | Not required for normal use. | | |
| Personal Protection | Eye/Face Protection: No special requirements. | | |
| | Skin Protection: In case of accidental release of paint, wear appropriate gloves for clean-up. | | |
| | Respiratory Protection: Not required for normal use. | | |
| General Measures | Do not ingest. Avoid contact with eyes and skin; do not breathe fumes. Keep out of reach of children. | | |
| Section 9 | | PHYSICAL AND CHEMICAL PROPERTIES | |
| Physical State: Solid, containing liquid paint. | Vapor Density (Air =10): Not available | | |
| Appearance, Color, Odor: Cylindrical marker; various colors, mild odor of organic solvent. | Evaporation Weight: Not available | | |
| Specific Gravity: 0.98 – 1.13 | Melting Point: Not available | | |
| Viscosity: Not available | Boiling Point: 120°C (248°F) for 1-methoxypropan-2-ol | | |
| Odor Threshold: Not available | % Volatile: 50 - 60 % (w/w) for liquid paint | V.O.C. in g/L: 700 – 750 g/L | |
| Water Solubility: Insoluble in water. | pH: Not applicable | | |
| Vapor Pressure: Not applicable | Decomposition Temperature: Not available | | |
| Addition Properties: Not available | | | |
| Section 10 | | STABILITY AND REACTIVITY | |
| Stability | Stable at normal room temperature. | | |
| Incompatibility | Incompatible with strong oxidizing agents. | | |
| Conditions to Avoid | Avoid extreme heat and open flames. | | |
| Polymerization | Hazardous polymerization will not occur. | | |
| Hazardous Decomposition | Not available | | |

| Section 11 | | TOXICOLOGICAL INFORMATION |
|-------------------------------|---|---------------------------|
| Oral Toxicity | Acute toxicity data is not available for the liquid paint preparations inside the markers. The paint contains substances which are considered irritants by inhalation and in contact with eyes and skin however, exposure to these substances by the user is not expected when the marker is used for its intended purpose. | |
| Dermal Toxicity | Paint may cause irritation in case of accidental contact with eyes and skin. | |
| Inhalation Toxicity | Not available | |
| Chronic Toxicity | Long-term health effects are not expected with normal use of the marker. Prolonged or repeated contact of the paint to skin may result in defatting and drying of skin and may result in dermatitis. | |
| Respiratory Irritation | Not available | |
| Carcinogenicity | Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program). | |
| Other | Not available | |
| Section 12 | | ECOLOGICAL INFORMATION |
| Ecotoxicity | Not available | |
| Degradability | Not readily biodegradable. | |
| Mobility | Insoluble in water. | |
| Section 13 | | DISPOSAL CONSIDERATIONS |
| Waste Disposal Method | <p>Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.</p> <p>The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, the supplier does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.</p> | |

| Section 14 | | TRANSPORT INFORMATION |
|---|--|------------------------|
| US DOT Shipping Name | Not regulated as a hazardous material. This product conforms to small quantity exception of DOT 49CFR173.4 | |
| Hazard Class | Not applicable | |
| DOT Identification Number | Not applicable | |
| DOT Shipping Label | Not applicable | |
| Canadian Transportation of Dangerous Goods: | Not regulated as a dangerous good for transport. | |
| Marine Pollutants | Not applicable | |
| Section 15 | | REGULATORY INFORMATION |
| USA | | |
| TSCA Inventory | All substances are listed on the TSCA 8(b) inventory. | |
| SARA Title III | Sec. 302/304: Not applicable | |
| | Sec. 311/312: Not applicable | |
| | Sec. 313: Not applicable | |
| | CERCLA RQ: Not applicable | |
| California Prop 65 | Not applicable | |
| Canada | | |
| WHMIS Classification (for workplace exposures) | Not controlled This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the MSDS contains all the information required by the <i>Controlled Products Regulations</i> . | |
| New Substance Notification Regulations | All component substances are listed on Canada's Domestic Substances List (DSL). | |
| NPRI Substances | Not applicable | |

| Section 16 | | OTHER INFORMATION |
|-------------------------------|---|-------------------|
| Additional Information | Not applicable | |
| Prepared By | Fire Protection Products, Inc. 6241 Yarrow Drive, Suite A Carlsbad, CA 92010-1541 Phone: (760) 931-1168 | |
| Revised Date | March 21, 2012 | |
| Disclaimer | Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, Fire Protection Products, Inc. makes no representations as to the completeness or accuracy thereof. Fire Protection Products, Inc. makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose since the conditions of use are beyond our control. Fire Protection Products, Inc. assumes no responsibility for injury to recipient or to third persons for any damage to any property and recipient. | |

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health = Fire = Reactivity = PP =

Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme