

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Fenner Drives

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PRODUCT NAME &/OR NUMBER: PVC V-Guides; PVC Cleats; 3010000 Series

TRADE NAME & SYNONYM: PVC V-Guides; PVC Cleats; 3010000 Series

CHEMICAL NAME & SYNONYM: Not applicable **CHEMICAL FAMILY:** Mixture **FORMULA:** Not Applicable

2. HAZARDS IDENTIFICATION

Under normal operations, this material is not expected to be a hazardous material. However, during welding operations, there is a potential for hazardous vapors to be emitted. This MSDS has been developed to identify hazards that may be present during welding operations.

EMERGENCY OVERVIEW

Black, white, or neutral solid with a faint plastic odor

During a fire, irritating and highly toxic gases may be generated

TOXICITY: DEHP (Di-(2-ethylhexyl)phthalate is listed by NTP as "reasonably anticipated to be carcinogenic". VC compounds may contain trace amounts (less than 1 ppm) of vinyl monomer. PVC has been determined to be a suspect carcinogen by OSHA. It may be possible to exceed the 1 ppm level in a poorly ventilated room during welding operations. If this occurred, the area would be regulated under 29 CFR 1910.1017. Periodic monitoring of the area is a prudent recommended practice

COMPOSITION / INFORMATION ON INGREDIENTS (Applicable To All Listed Products)

| COMPONENT | CAS NO. | % | SYNONYMS |
|--------------------------|-----------|---------|--|
| Di(Ethylhexyl) Phthalate | 117-81-7 | 14 – 40 | BEHP, Bis(2-ethylhexyl)phthalate, DEHP, DOP, Octyl Phthalate |
| Vinyl Chloride Monomer* | 75-01-4 | < 1 ppm | VC, VCM |
| Limestone | 1317-65-3 | 14 – 40 | Calcium Carbonate, Prepared Chalk |

* Residual impurity in PVC.

4. FIRST AID MEASURES

INGESTION: Small amounts are not likely to cause damage.

EYES: May cause slight irritation during welding operations.

SKIN: Should not pose a hazard in normal use.

INHALATION: Not likely to result in irritation in solid form. Thermal decomposition may result in release of toxic airborne contaminants. Remove exposed individual to fresh air.

NOTES TO PHYSICIAN: Supportive care. Treatment based on physician's judgment in response to patient's reactions.

5. FIRE FIGHTING MEASURES

FLASH POINT: 735 degrees F **METHOD:** ASTM D-1929 **FLAMMABLE LIMITS:** Not available

AUTOIGNITION TEMPERATURE: 850 degrees F

EXTINGUISHING MEDIA: Water, ABC dry chemical, foam, or carbon dioxide (CO₂) to extinguish fire. Caution: CO₂ will displace air in confined spaces and may cause an oxygen deficient atmosphere.

FIRE & EXPLOSION HAZARDS: Not expected to be a hazard in normal use.

FIRE-FIGHTING EQUIPMENT: Use positive pressure self-contained breathing apparatus. Contaminants of burning material may contain hydrogen chloride, benzene, water vapor, carbon monoxide, and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment. Normal housekeeping or clean up should suffice. Industrial waste incineration is the recommended method of disposal, to be performed in accordance with Federal, State and local regulations.

Refer to Section 8 for additional information.

7. HANDLING AND STORAGE

STORAGE: Store in original containers at ambient environmental conditions.

SPECIAL PRECAUTIONS: Wear gloves when handling hot material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| COMPONENT | EXPOSURE LEVEL |
|--------------------------|---|
| Di(Ethylhexyl) Phthalate | OSHA PEL = ACGIH TLV = 5 mg/M ³ |
| Vinyl Chloride Monomer* | OSHA PEL = 1 ppm; CEIL = 5 ppm; ACGIH TLV = 1 ppm (A1) |
| Limestone | OSHA PEL = 15 mg/M ³ (total dust); 5 mg/M ³ (respirable dust); ACGIH TLV = 10 mg/M ³ |

* Residual impurity in PVC.

There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as good industrial hygiene practices.

VENTILATION: During welding operations, use with ventilation adequate to reduce levels of air contaminants below that which may cause personal injury or illness. Local exhaust ventilation that removes air contaminants from the workers' breathing zones is preferred. General, mechanical, or dilution ventilation may be suitable.

RESPIRATORY PROTECTION: Should not be necessary in normal use.

SKIN PROTECTION: Wear gloves when handling hot materials. Wash thoroughly after handling.

EYE/FACE PROTECTION: Wearing approved safety eyewear is always recommended. Have eyewash facilities immediately available.

GENERAL: Do not store or consume food in processing areas.

Refer to Section 3 for exposure guidelines.

9. PHYSICAL AND CHEMICAL PROPERTIES +

BOILING POINT (F/C): Not applicable

pH: Not applicable

SPECIFIC GRAVITY (H₂O=1): 1.37 – 1.39

PHYSICAL STATE: Solid

FREEZING POINT (F/C): Not applicable

VAPOR PRESSURE (mm Hg): Not applicable

% VOLATILE BY VOLUME: Negligible.

EVAPORATION RATE (BA=1): Not applicable

APPEARANCE AND ODOR:

MELTING POINT: 130 – 190 degrees C

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable

VAPOR DENSITY (Air=1): Not applicable

SOLUBILITY IN WATER: Negligible

ODOR THRESHOLD: Not established

+ Based on majority component

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. **CONDITIONS TO AVOID:** None known.

INCOMPATIBLE MATERIALS: Avoid contact with acetal or amine containing compounds. Decomposition can rapidly occur at processing temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, carbon monoxide, carbon dioxide, and aliphatic olefins may evolve.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation, skin absorption, eyes.

INHALATION: Exposure to heated materials may cause irritation to the mucous membrane and upper respiratory tract. Acute or chronic toxicity data is not available for the compounded products.

SKIN CONTACT: Skin contact should not be a concern during normal handling and processing. Wear protective gloves when handling hot material. Dermal toxicity data is not available for the compounded products.

INGESTION: Material should not be ingested. Toxicological data is not available for the compounded products.

EYE: Eye toxicity data is not available for the compounded products.

SYSTEMIC & OTHER EFFECTS: Systemic toxicity data is not available for the compounded products.

CARCINOGENICITY (for the compounded products): NTP - No; IARC - No; ACGIH - No; OSHA - No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Should not pose a hazard in normal use.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No information available for the compounded products.

CHEMICAL FATE INFORMATION: No information available for the compounded products.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class: None. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Industrial waste incineration is the recommended method of disposal. This advice applies to the material as manufactured. Processing, use, or contamination may make the information inappropriate, inaccurate, or incomplete. The waste generator has the responsibility for proper waste classification, transportation, and disposal. Dispose of material in accordance with Federal, State and local regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation: Not regulated.

International Air Transport Association: Not regulated.

Transport Canada Product Identification Number: Not regulated.

15. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act): All components of this material appear on the Inventory of Chemical Substances published by the US Environmental Protection Agency (EPA) under the authority of the Toxic Substance Control Act (TSCA).

SARA Title III (Superfund Amendments & Reauthorization Act):

311/312 Hazard Categories: Acute – No. Chronic – No. Fire – No. Reactive – No. Pressure – No.

313 Reportable Ingredients: As of the preparation date of this MSDS, these solid, molded products contained substances subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. Responsibility for filing a Form R report with the EPA is dependent on volumes. This information must be included in all MSDSs that are copied and distributed for this material.

CERCLA (Comprehensive Response Compensation and Liability Act): Not Reportable. Contact local authorities to determine if there may be other local reporting requirements.

WHMIS (Workplace Hazardous Materials Identification System): Not classified. This MSDS has been prepared to meet WHMIS requirements except for use of the 16 headings.

EINECS: All components of this product are on the European Inventory of Existing Commercial Chemical Substances.

NEHAPS (National Environmental Health Action Plans): Contains no regulated substances.

EU CLASSIFICATION AND LABELING INFORMATION: Not applicable. **EU Risk Phrases:** Not applicable.

EU Safety Phrases: Not applicable.

VOLATILE ORGANIC COMPOUNDS (VOC): Not applicable.

STATE RIGHT-TO-KNOW REQUIREMENTS:

Chemical Name: Di(Ethylhexyl) Phthalate, 14%-40% CAS Number: 117-81-7

California (Proposition 65), Massachusetts, Minnesota, New Jersey, New York, Pennsylvania.

Chemical Name: Vinyl Chloride Monomer, < 1 ppm CAS Number: 75-01-4

California (Proposition 65), Massachusetts, Minnesota, New Jersey, New York, Pennsylvania.

Chemical Name: Limestone, 14%-40% CAS Number: 1317-65-3

Massachusetts, Minnesota, Pennsylvania.

16. OTHER INFORMATION

HMIS® HAZARD CLASSIFICATION: Health: 1 Fire: 0 Reactivity: 0 Special: see Note below

NFPA HAZARD CLASSIFICATION: Health: 1 Fire: 0 Reactivity: 0 Special: see Note below

Note: User must determine the need for personal protective equipment under actual conditions of use.

REVISION SUMMARY for MSDS No. BVC

Date Prepared: October 19, 2005

Last Revised: Not applicable

Previous Revision: Not applicable

Summary of Revisions:

10/19/05 - New MSDS in ANSI Z400.1 format.

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information is derived from the best available sources and is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of Fenner Drives, it is the user's responsibility to determine the suitability and completeness of this information, and the conditions of safe use of the product, for his own particular use.