

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Fenner Drives

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PRODUCT NAME &/OR NUMBER: Urethane and Polyester Belting Products (all colors)

TRADE NAME & SYNONYM: Eagle® Opaque 80, Eagle® Blue Go 85a, Eagle® Orange 85, Eagle® Clear 85, Eagle® Green 89 T, Eagle® Red 90, Eagle® Clear 95, Eagle® Orange 85 R, Eagle® Hyfen® 85 R, Eagle® Green 89 RT, Eagle® Beige 95 R, Eagle® Hyfen® 95 R, Eagle® Red 50D CC LCF, Eagle® Blue 55D CC, Eagle® Natural 55D CC, Eagle® Green 63D CC, Eagle® Natural 63D CC, Eagle® Red 85 CXF, Eagle® Hyfen® 85 CXF, Eagle® Hyfen® 85 CXR, Tapered Edge Band, Fenner Eagle Dark Blue 80A

CHEMICAL NAME & SYNONYM: Thermoplastic polyurethanes

CHEMICAL FAMILY: Mixture **FORMULA:** Not Applicable

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Various clear or colored solids with a faint plastic odor

The solid material is not hazardous and is not expected to cause irritation

Hazardous airborne contaminants may occur during decomposition such as in welding processes

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

3. COMPOSITION / INFORMATION ON INGREDIENTS[#]

COMPONENT	CAS NO.	%	EXPOSURE LEVEL
Colorants: (only those present @ ≥ 1% in ≥ 1 pigment formulations)			
Note: Colorants comprise 0-4% of any given formulation			
- Aluminum Hydroxide (as AL)	21645-51-2	≤ 3.72	None established
- Antimony (SB) Metal & Compounds	7440-36-0	≤ 13.32	OSHA PEL = ACGIH TLV = 0.5 mg/M3
- Carbon Black	1333-86-4	≤ 4.0	OSHA PEL = ACGIH TLV = 3.5 mg/M3
- Chrome Antimony Titanium	68186-90-3	≤ 13.32	None established
- Chromium (III) Compound	-	≤ 13.32	OSHA PEL = ACGIH TLV = 0.5 mg/M3
- Ethylene Bisstearamide	110-30-5	≤ 4.0	None established
- Limestone (Total Dust)	1317-65-3	≤ 20.0	OSHA PEL = 15.0 mg/M3
- Montan Wax (PNOC Total Dust)	73138-45-1	≤ 4.41	OSHA PEL = 15.0 mg/M3
- Silicon Dioxide, Amorphous	7631-65-3	≤ 4.14	OSHA PEL = 20 mppcf or 80 mg/M3/%SiO ₂ ; NIOSH REL = 6.0 mg/M3
- Titanium Dioxide (Total Dust)	13463-67-7	≤ 41.0	OSHA PEL = 10 mg/M3; ACGIH TLV = 10 mg/M3
Thermoplastic Polyurethane Resins	Proprietary	100.0	None established

[#] Note: The information provided about the pigments and additives applies to their pure dry form. The form of the pigment and additive provided to customers is encapsulated in plastic, and therefore the likelihood of exposure is much less, even to the point of negligible. We consider the level of hazard to be negligible at ambient conditions and under normal conditions of use.

4. FIRST AID MEASURES

INGESTION: Small amounts are not likely to cause damage.

SKIN: Should not pose a hazard in normal use.

EYES: May cause slight irritation during welding processes.

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: No specific antidote. Use supportive care. Treatment based on physician's judgment in response to patient's reactions.

5. FIRE FIGHTING MEASURES

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.

SPECIFIC HAZARDS ARISING FROM THE PRODUCTS: None known.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: No known special requirements.

6. ACCIDENTAL RELEASE MEASURES

Normal housekeeping or clean up to avoid slipping hazard should suffice. Keep from entering sewers, lakes or streams. 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

There are no known health 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: None related to solid material.

Refer to Section 3 for exposure guidelines.

9. PHYSICAL AND CHEMICAL PROPERTIES*

FLASH POINT & METHOD: Not applicable
FLAMMABLE LIMITS: Not applicable
BOILING POINT (F/C): Not applicable
pH: Not applicable
SPECIFIC GRAVITY (H₂O=1): 1.1 – 1.3
% VOLATILE BY VOLUME: Negligible.
EVAPORATION RATE (BA=1): Not applicable
APPEARANCE AND ODOR: Faint plastic odor.
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable
PHYSICAL STATE: Solid
FREEZING POINT (F/C): Not applicable
VAPOR PRESSURE (mm Hg): Not applicable
VAPOR DENSITY (Air=1): Not available
SOLUBILITY IN WATER: Insoluble
ODOR THRESHOLD: Not established
MELTING POINT: Above 302° F

* Based on compounded products

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of storage and use. Do not expose material to ultraviolet radiation.

CONDITIONS TO AVOID: Strong oxidizers. Decomposition occurs at processing temperatures above 500° F. Do not overheat when splicing; use a controlled heat source. Keep hot blade clean of all residue.

INCOMPATIBLE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aromatic or aliphatic fractions, and traces of hydrogen cyanide and isocyanates.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur in normal use.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation and eyes if irritating airborne contaminants are generated during welding processes.

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 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. Pick up waste material and place in containers for disposal. Industrial waste incineration or sanitary landfills are the recommended methods 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 (for the compounded products): Acute – No. Chronic – No. Fire – No. Reactive – No. Pressure – No.

313 Reportable Ingredients: As of the preparation date of this MSDS, one or more of the ingredients in one or more of these 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. This information must be included in all MSDSs that are copied and distributed for this material.

Chromium (III) as CR and Compounds CAS# 7440-47-3 < 0.94%

Antimony as SB and Compounds CAS# 7440-36-0 < .37%

Zinc Compound ----- 1.15%

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): This MSDS has been prepared to meet WHMIS requirements except for use of the 16 headings.

Carbon Black – D2A

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:****State(s)**

Acrylonitrile	CA, MA, MI, MN, NJ, PA, WA	< 100 ppm
Arsenic	CA, MA, MI, MN, NJ, PA, WA	≤ 10 ppm
Cadmium	CA, MA, MI, MN, NJ, PA, WA	≤ 10 ppm
Chromium	CA, MA, MI, MN, NJ, PA, WA	≤ 6 ppm
Chromium (III) Oxide	CA, MA, MI, MN, NJ, PA, WA	≥ 95%
Hexavalent Chromium	CA, MA, MI, MN, NJ, PA, WA	< 1ppm (leachable)
Hexachlorobenzene	CA	< 1 ppm
Lead	CA, MA, MI, MN, NJ, PA, WA	≤ 90 ppm
Mercury (1 ppm)	CA	
Mercury	CA	< 5 ppm
Nickel	CA, MA	50–200 ppm
PCBs (≤ 25 ppm)	CA	
Pigment Blue 15	MA, PA, NJ	
Pigment Green 7	MA, PA	
Polyurethane Polyester Elastomer	NJ, PA	
Selenium	CA	< 2 ppm
Silica, Crystalline	CA	
Zinc Ferrite	NJ, PA	approx. 100%

Note: These chemicals are bound within the applicable polymer structures and are not expected to be a health hazard.

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

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

Note: Health = 1 if welding processes create airborne contaminants. User must determine the need for personal protective equipment under actual conditions of use, including welding.

16. OTHER INFORMATION

REVISION SUMMARY for MSDS No. UBP

Date Prepared: September 1, 2006 **Last Revised:** October 15, 2010 **Previous Revision:** October 6, 2010

Summary of Revisions:

09/01/06 - New MSDS in ANSI Z400.1 format.

09/12/06 – Updated product information to include Tapered Edge Band

09/22/08 – Added new product Eagle® Blue Go 85a

10/6/10 – Added new product Fenner Eagle Dark Blue 80 A and added NJ to Blue pigment 15

10/15/2010 – Updated logo and renamed to Eagle Urethane Belting Products

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.