



Material Safety Data Sheet

24 HR. CHEMTREC EMERGENCY #: 1-800-424-9300
(OUTSIDE THE U.S. & CANADA: 1-202-483-7616)

| | | | |
|-------------------|--------|------------------|------------|
| HAZARD RATING | Fire | | |
| 4 - EXTREME | | | |
| 3 - HIGH | Health | 2 ² 0 | Reactivity |
| 2 - MODERATE | | | |
| 1 - SLIGHT | | | |
| 0 - INSIGNIFICANT | | | Special |

SECTION 1 - PRODUCT IDENTIFICATION

IDENTITY: Asphalt Cements / Coatings – AF

13AF, 16AF, 18AF, 19AF, 71AF, 78AF, 79AF, 83AF
86AF, 155AF, 160, 197AF, 198AF

DATE: June 9, 2003
Revision: 3

MANUFACTURER:

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| Components | CAS# | Weight % | OSHA PEL | ACGIH TLV | Other Limits Recommended |
|-----------------------------|------------|----------|---------------------|---------------------|------------------------------|
| Asphalt | 8052-42-4 | 30-80 | N.E. | 5mg/m ³ | 5mg/m ³ (NIOSH) |
| Aliphatic hydrocarbons | 8052-41-3 | 3-40 | 100 ppm | 100 ppm | 350mg/m ³ (NIOSH) |
| Amorphous Alumina Silicates | 93763-70-3 | 0-20 | 15mg/m ³ | 10mg/m ³ | N/A |
| Attapulgite Clay | 12174-11-7 | 0-20 | N/A | 5mg/m ³ | N/A |
| Cellulose Fibers | 9004-34-6 | 0-15 | 5mg/m ³ | 5mg/m ³ | N/A |
| Polymers | 9003-55-8 | 0-20 | N/A | N/A | N/A |
| Cationic Salt | 28701-67-9 | 0-3 | N/A | N/A | N/A |

PEL = Permissible Exposure Limits
TLV = Threshold Limit Value
N.E. = Not Established
N.A. = Not Applicable

OSHA = Occupational Safety and Health Administration
ACGIH = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute for Occupational Safety and Health

SECTION 3 - HAZARDS IDENTIFICATION

Combustible liquid and Vapor

Potential Health Effects:

Fumes from product can be unpleasant, may cause nausea, headache and irritating to eyes, skin, and respiratory tract.

SECTION 4 - FIRST AID MEASURES

Eye Contact: If this product comes in contact with eyes, Flush eye with plenty of water for at least 15 minutes and seek medical attention.

Skin Contact: If this product comes in contact with skin, remove material with mineral oil, then wash with soap and plenty of water.

Inhalation: If respiratory discomfort occurs, remove to fresh air. If discomfort continues, administer oxygen and get medical attention.

Ingestion: If swallowed, do not induce vomiting. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (PMCC): 104°F Minimum

Dust Explosivity Limits: Not Applicable.

Extinguishing Media: Carbon dioxide (CO₂), foam, or dry chemical. Water may be used to Cool containers exposed to heat.

Fire Fighting Instructions: Minimize breathing vapors, gases or fumes of decomposition products. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Unusual Fire Hazards: When heated above flash point, material will release flammable vapors which can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as liquid chlorine or concentrated oxygen.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition, and ventilate the area. Add sand or earth or absorb spill with suitable absorbent material and place in a closed container.

Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers or waterways. Assure conformity with applicable governmental regulations.

SECTION 7 - HANDLING AND STORAGE

Vapors are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. To prevent fumes from entering buildings or confined areas, close all air intake sources near the material handling or the work area. To prevent ignition, avoid smoking, keep away from heat, open flames and sources of static or electrical sparking. Use explosion proof motors and equipment. Tank trucks or other containers should be grounded and/or bonded when the material is transferred.

Avoid prolonged or repeated inhalation of vapors or spray mists. Avoid prolonged or repeated skin contact. Adhere to good hygienic practices. Avoid open flames. Use with adequate ventilation.

Store in a cool, dry place, out of direct sunlight and away from heat, sparks, and flame.

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection: Use supplied-air respirator in confined areas or with vapors in high concentrations.

Ventilation: Local Exhaust: In enclosed areas. Special: None
Mechanical: In enclosed areas. Other: None

Eye Protection: Safety glasses or face shield for liquid material.

Protective Gloves: Solvent impervious gloves.

Other Protective Clothing Equipment: Long sleeves and impervious clothing to protect against splashing.

Work/Hygienic Practices: See Section 7.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark liquid. Mild petroleum odor

Vapor Pressure: 3

Boiling Point: 300-350°F

Melting Point (R & B): N/A

Solubility in water: Insoluble.

Specific Gravity (H₂O=1): 0.8 – 0.99

Evaporation Rate (Butyl Acetate=1)@ 77°F: 0.2

Vapor Density (Air = 1): >4

Flash Point (PMCC): 104°F min.

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|--|
| Stability: | Stable |
| Conditions to Avoid: | Keep away from heat, spark, open flames. Auto-ignition temperature unknown. |
| Incompatibility (Materials to Avoid): | May react with strong oxidizing materials. |
| Hazardous Decomposition or Byproducts: | Combustion: carbon dioxide (CO ₂), carbon monoxide (CO), nitrogen oxides, smoke, and fumes. |
| Hazardous Polymerization: | Will not occur. |

SECTION 11 - TOXICOLOGICAL INFORMATION

Product may cause respiratory irritation, headache, dizziness, nausea and vomiting. Prolonged or repeated contact with skin may cause dermatitis.

Carcinogenicity: NTP?: No IARC Monographs?: No OSHA Regulated?: No

SECTION 12 - ECOLOGICAL INFORMATION

EPA Hazard Classification Code:

Acute Hazard: ____ Chronic Hazard: ____ Fire Hazard: ____ Pressure Hazard: ____

Reactive Hazard: ____ Not Applicable: X

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations, for additional description requirements.

DOT Shipping Name: Asphalt Cements / Coatings
DOT Label Information: Combustible Liquid
DOT Hazard Class: Non-Hazardous (Ground transport only)
DOT Packing Group: N/A (Ground transport only)

SECTION 15 - REGULATORY INFORMATION

SARA TITLE III - EPA Regulation 40 CFR 302 (CERCLA Section 102); CFR 355 (SARA Section 301-304);
CFR 372 (SARA Section 311-313) - NOT APPLICABLE.

This product contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372

1,2,4 – Trimethylbenzene CAS# 95-63-6 Weight% 0-2

EPA HAZARD CLASSIFICATION CODE: Acute Hazard/Chronic Hazard/Fire Hazard/Pressure Hazard/Reactive Hazard - NOT APPLICABLE.

TSCA, CANADIAN DSL: Yes

SECTION 16 - OTHER INFORMATION

Revision Statement:

This Material Safety Data Sheet has been revised to follow the ANSI Z400.1 standard.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The information has been completed to the best of our knowledge and is believed to be accurate and reliable as from the date indicated. However, no warranty is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for his own particular use.