

MATERIAL SAFETY DATA SHEET

Applied Technologies Spring/Fall Grade Mastic

NFPA

Health: 2

Fire: 2

Reactivity: 0

HMIS

Health: 2

Fire: 2

Reactivity: 0

Personal Protection: I

Section I- Product and Company Identification

Manufacturer: Applied Technologies, LLC
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Date: 08/21/01

Product Name: Applied Technologies Summer Grade Mastic

CAS Number: Not Established

Product Uses: Patching holes and honeycomb in concrete surfaces

Section II-Composition Information for Ingredients

Ingredient Name	CAS Number	% Total Weight
Asphalt (petroleum derived)	8052-42-4	40-90
Medium Aliphatic, Petroleum Distillate, mineral spirits	8052-41-3	10-60

Section III-Hazards Identification

Primary Routes of Entry: Inhalation, skin contact, eye contact and ingestion.

Eye Hazards- Can cause eye irritation. Symptoms include stinging, tearing, redness and swelling of eyes.

Skin Hazards- Prolong contact with cold product can cause drying and irritation. Long term skin exposure to asphalt fumes can increase sensitivity to the sun and cause skin discolorization.

Ingestion Hazards- May cause mouth, throat, and gastrointestinal tract irritation, nausea, vomiting and diarrhea. Aspiration of naphtha portion of this product into lungs can cause sever chemical pneumonitis which may be fatal. Harmful or fatal if swallowed.

Inhalation Hazards- Can cause dizziness, headaches, loss of appetite, nausea and possibly nose, throat and mucous membrane irritation. Solvents can affect the central nervous system, including general weakness, laps of memory, jitters, and unconsciousness or effects of mimicking drunkenness. In extreme cases, inhalation can result in unconsciousness or death.

Chronic/Carcinogenicity Effects- Prolonged or repeated skin contact with this product may result in irritation and dermatitis. IARC has classified extracts of steam and air refined bitumen as group 2b.

Carcinogenicity:

<u>Hazardous Ingredients-</u> Listed as carcinogen by:	ACGIH	NTP	OSHA
Extracts of steam and air refined bitumens (naphtha cutback asphalt)	NO	NO	NO
Mineral Spirits	NO	NO	NO

Conditions Aggravated by Exposure- Persons with a history of chronic skin or respiratory disorders may risk worsening their conditions from exposure to this product.

Section IV- First Aid

Eye- Immediately flush eyes with running water for at least 15 minutes. Seek medical attention immediately.

Skin- Contact with cold material clean exposed skin with waterless hand cleaner then wash with soap and water. Note: Skin contact with clothing saturated in mineral spirits can cause second-degree burns. Contaminated clothing should be removed immediately and excess material wiped from skin. Wash with mild soap and water. Seek medical attention if condition persists.

Ingestion-DO NOT INDUCE VOMITING. Prevent aspiration of material into lungs due to vomiting can cause severe chemical pneumonitis, which can be fatal. Seek immediate medical attention.

Inhalation- If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult. administer oxygen.

Note To Physician- Perform gastric lavage in accordance with procedures for ingestion of petroleum products.

Section V-Fire Fighting Measures

Flash Point-103⁰ F **Flash Point Method:** Tag closed cup

Lower Explosive Limit- Not determined, 0.9 for mineral spirits

Fire and Explosion Hazards- Material is combustible. Vapors of mineral spirits are heavier than air and may travel along the ground or are moved by ventilation to locations distant from the point of material handling. To prevent ignition, avoid smoking, keep away from open flame or sources of static or electrical sparking. Use explosion proof motors and equipment. Tank trucks or other containers should be grounded and/or bonded when material is transferred.

Extinguishing Media- Regular foam, carbon dioxide & dry chemicals.

Fire Fighting Instructions- Do not direct water on substance. Treat as a fuel fire. Water may be used to cool closed containers. In a substance fire, use self-contained breathing apparatus.

Section VI-Accidental Release Measures

Use appropriate personal protective equipment. Prevent material from entering sewers and waterways. remove all sources of ignition (flames, hot surfaces and electric, static or frictional sparking sources.) Ventilate area. Absorb with inert materials such as vermiculite or sand and dispose of solid waste.

Section VII-Handling and Storage

Handling Precautions- Material is combustible. Vapors of mineral spirits are heavier than air and may travel along the ground or are moved by ventilation to locations distant from the point of material handling. 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 containers should be grounded and or bonded when material is transferred.

Work/Hygienic Practices- Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding any unnecessary exposure and removal of the material from the skin, eyes, and clothing. Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled. Safety showers and eye wash stations should be available.

Section VIII-Exposure Controls/ Personal Protection

Engineering Controls- ventilation- Outdoor use- Ensure adequate ventilation and avoid fumes by working upwind. Indoor use-Ensure adequate building ventilation and local exhaust.

Eye/Face Protection- Wear chemical safety goggles or a face shield when material is in liquid form.

Skin Protection- Wear long sleeve shirt and long pants. Leather lined neoprene gloves should be used when there could be direct contact. Sunscreen may decrease potential for skin discoloration with chronic exposure.

Respiratory Protection- If irritation occurs or if the PELs, TLVs or NIOSH-PELs are exceeded, use a NIOSH/MSHA approved air-purifying respirator with organic vapor cartridges or canisters and a dust/mist prefilter. In situations where the concentration exceeds the PEL or TLV, supplied air respirators or self contained breathing apparatus are required. Always use respiratory protection in accordance with your company's respiratory protection program and OSHA regulations under 29 CFR 1910.134.

Ingredients Exposure Limits:

Asphalt (petroleum derived)

OSHA/PEL* N/E; ACGIH/TLV: 5mg/m³, 8hour TWA (asphalt fumes;); Other: NIOSH 5mg/m³

*OSHA has not established a specific PEL for asphalt fumes. They are considered as "particulate not otherwise regulated" with a PEL of 5mg/m³ for the respirable dust and fraction and 15mg/m³ for total dust fraction.

Medium Aliphatic Petroleum Distillate, Mineral Spirits

OSHA/PEL: 400 ppm, 8 hour TWA (pet. distillates); ACGIH/TLV: 100 ppm, 8 hour TWA (stoddard solvent); other: NIOSH 350 mg/m³, 10 hour TWA

Section IX-Physical and Chemical Properties

Appearance-Black

Odor-Petroleum odor

Melting Point- Not determined

Specific Gravity- 0.87-0.96

Evaporation Rate- Slower than ether

Vapor Pressure-(mm Hg @ 200 C): not determined, 2.9 for mineral spirits

Vapor Density-Not determined (air=1), 4.9 for mineral spirits

pH factor: Not Determined

Evaporation Rate- (Ethyl ether=1) Not determined, 70 for mineral spirits

Chemical Type-Mixture

Physical State- Solid

Boiling Point- Not determined, 300^o F for mineral spirits

% Volatile by Volume- 25-75

Solubility: Insoluble

Section X- Stability and Reactivity

Stability: Stable

Hazardous Polymerization: will not occur

Conditions to Avoid (stability): Combustible. **KEEP AWAY FROM HEAT, OPEN FLAME AND SOURCES OF SPARKING OR ELECTRICAL SHORT.**

Incompatible Materials- Avoid contact with strong oxidizing agents and water.

Hazardous Decomposition Products- Carbon Dioxide, Carbon Monoxide, Hydrogen Sulfide, sulfur oxides and various hydrocarbon fragments.

Section XI- Toxicological Information

No data available

Section XII- Ecological Information

No data available

Section XIII-Disposal Information

Dispose of in accordance with all applicable local, state and federal regulations. Drums are hazardous unless emptied (less than 1" of residue.)

RCRA Information- This material is "RCRA" regulated hazard waste and must be disposed of in a permitted facility.

Section XIV-Transportation Information

Proper Shipping Name- Mineral Spirit cutback asphalt

Section XV- Regulatory Information

Ingredients- US regulatory Information-

Medium Aliphatic, Petroleum Distillate, Mineral Spirits
RCRA Hazardous Waste

Section XVI-Other Information

NFPA RATING

Health: 2
Fire: 2
Reactivity: 0

HMIS Rating

Health:2
Fire: 2
Personal Protection: I

This MSDS supercedes a previous MSDS dated: February 10, 1998.

Disclaimer

The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product. Since conditions of use are outside of our control.

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