



MATERIAL SAFETY DATA SHEET

Gardner Asphalt Corporation P.O. Box 5449 Tampa, FL 33675

A. IDENTIFICATION AND EMERGENCY INFORMATION

Product Name: Plastic Roof Cement

Product Code: 0340

Chemical Name: N/A

CAS Number: N/A A
Complex
Mixture

Product Appearance and Odor: A moderately thick black coating with a slight petroleum hydrocarbon solvent odor.

Emergency Telephone Number: CHEMTREC 1-800-424-9300

B. COMPONENTS AND HAZARD INFORMATION

<u>Components</u>	<u>CAS No.</u>	<u>ACGIH TLV</u>	<u>Approximate Concentration</u>
Petroleum Asphalt	8052-42-4	0.5mg/m(3) (Fume)	Less than 50%
Petroleum Solvents	64742-48-9	100 ppm	Less than 20%
Asbestos Fibers*	1332-21-4	0.2 fibers >5cc/mm	Less than 10%
Kaolin Clay	1332-58-7	10mg/m(3)**	Less than 15%
Calcined Clay	66402-68-4	5.0mg/m3**	Less than 15 %

* (Carcinogen as raw material only)

**As respirable dust.

Hazardous Materials Identification System: (HMIS)

Health

Flammability

Reactivity

Basis

1

2

0

Recommended
By Gardner
Asphalt

PRIMARY ROUTES OF ENTRY AND EMERGENCY & FIRST AID PROCEDURE

Eye Contact: Petroleum Solvents & polymer Components - can cause severe irritation, redness, tearing and blurred vision. Flush with large amounts of water for at least 15 minutes. Get medical attention.

Skin Petroleum Solvents and polymer Components - prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. Remove contaminated clothing/shoes thoroughly wash exposed area with soap and water. If irritation persists or redness develops and persists, get medical attention.

Inhalation Petroleum Solvents - excessive inhalation of vapors can cause irritation of nose and throat, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation. Remove individual to fresh air; if breathing is difficult, administer oxygen, if breathing has stopped, administer artificial respiration. Keep person warm and quiet. Get medical attention immediately.

Ingestion: Aspiration hazard. **DO NOT INDUCE VOMITING** - transport to hospital immediately. Get medical attention. Note to Physician - perform gastric lavage in accordance with procedures for ingestion of petroleum products.

Flash Point (Minimum):

105 degrees F. via TCC (Petroleum Solvent)

Autoignition Temperature (Dry Film):

Greater than 450 degrees

National Fire Protection Association (NFPA) - Hazard Identification

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>	<u>Basis</u>
0	2	0	Recommended By Gardner Asphalt

Handling Precaution Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use this product with adequate ventilation. Material is **COMBUSTIBLE**. Material requires electrical grounding during material transfer process. All electrical equipment in storage or handling areas should be installed per NFPA requirements.

Flammable or Explosive Limits: (Approximate percent by volume in air)

Lower (LEL) 0.9%

Upper (UEL) 6.0%

Extinguishing Media and Fire Fighting Procedures:

Extinguishing with dry chemical & CO₂ or Universal type foam and water fog are effective but may cause frosting. **DO NOT USE WATER.** Petroleum based compounds float on water. Fight as a **FUEL OIL FIRE.**

Decomposition Products under Fire Conditions:

May form toxic materials; carbon dioxide and carbon monoxide and nitrogen oxides.

Empty Container Warning:

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

E. **HEALTH AND HAZARD INFORMATION**

Variability Among Individuals:

Health studies have shown that individual sensitivities vary from person to person. As a precaution, exposure to vapors, liquids, mists, or fumes should be minimized.

Effects of Overexposure:

(Signs and symptoms of exposure) Breathing asphalt aerosol or asphalt smoke for protracted periods of time has produced damage to the lungs of mice. Among the changes observed were: bronchitis, pneumonitis and abscess formation.

ature of Hazard and Toxicity Information:

In 1994, the International Agency for Research on Cancer (IARC) reconfirmed its earlier assessment that studies of workers exposed to asphalt provide inadequate evidence of carcinogenicity. IARC has previously classified asphalt as a Group 3 substance, not classifiable as to its carcinogenicity to humans.

Pre-existing Medical Conditions Which May be Aggravated by Exposure:

Persons with pre-existing central nervous system disease, skin disorders, or chronic respiratory disease should avoid exposure to this product.

F.

PHYSICAL DATA

The following are approximate or typical values and should not be used for precise design purposes

Boiling Range :

Mineral Spirits: 300 - 390 degrees F.

Vapor Pressure :

Approx. 6mm Hg 106 deg.. F.

Specific Gravity :

Less than 1

Vapor Density :

3.9 (air = 1.0)

Molecular Weight :

N/A A Complex Mixture.

Percent Volatile by Volume:

less than 25%

pH :

N/A

Evaporation Rate @ 1 ATM & 25 deg C (77 deg F)

Slower than ether

Pour Congealing or Melting Point

N/A, product is a paste consistency.

Solubility in Water @ 77 deg. F.

Insoluble

Viscosity:

Approximately 500,000 - 1,500,000 cps @ 77 deg F.

REACTIVITY

his product is stable and will not violently react with water. Hazardous polymerization will not occur. Avoid heat or open flame and strong oxidizers such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

H REGULATORY / ENVIRONMENTAL INFORMATION

Steps to be taken in case material is released or spilled:

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbents to spill area. Minimize skin contact and breathing vapors. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and water courses by diking or impounding. Advise authorities if product has entered or may enter sewers, water courses or extensive land areas. Assure conformity with applicable governmental regulations.

SARA Title III Section 313 - Toxic Chemicals

This product does not contain toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of (SARA) and 40 CFR Part 372.

SARA Title III Section 311 - Hazard Categories

Acute = fumes only

SARA Title III Section 302(a) - Extremely Hazardous Substances

This product does not contain Extremely Hazardous Substances of Section 302(a).

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Section 102 Hazardous Substances, 42 U.S.C. 9602

Petroleum and petroleum fractions are excluded from the list of CERCLA hazardous substances by Section 101(14) of CERCLA.

EPA Hazard Classification Code:

Acute

Chronic

Fire

Pressure

Reactive

Not Applicable

XXX

PROTECTION AND PRECAUTION

Ventilation:

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment. No smoking or open lights.

Respiratory Protection:

Air concentrations of fumes determine the level of protection needed. Use only NIOSH approved respiratory equipment within the limits of the protection factors for that equipment.

Protective Gloves:

Use protective chemical resistant gloves such as neoprene or nitrile-butadiene rubber gloves.

Eye Protection:

Safety glasses, splash goggles or face shield should be used. **CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.**

Other Protective Equipment:

Employees who have prolonged or repeated exposure should wear gloves and clothing that is impervious to petroleum solvents and asphalt components, to avoid contaminating clothing which could result in prolonged or repeated skin contact.

Work Practices:

Keep containers closed when not in use. **DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS.** To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with NFPA standard for petroleum products.

Personal Hygiene:

Employees who handle this material should cleanse hands thoroughly before eating and smoking. Minimize breathing vapors or mist. Remove contaminated clothing, launder or dry clean before reuse. Remove contaminated shoes and thoroughly clean and dry before use. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

TRANSPORTATION INFORMATION

Transportation Incident Info:

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT Identification Number:

Not Established

The information and recommendations contained herein are to the best of Gardner Asphalt's knowledge and belief, accurate and reliable as of the date issued. Gardner Asphalt does not warrant or guarantee their accuracy or reliability, and Gardner Asphalt shall not be liable for any loss or damage arising out of the use thereof.

This information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The environmental information included in Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Gardner Asphalt Corporation in order to provide additional health and hazard classification information. The ratings are based upon the criteria supplied by the developers of these ratings systems, together with Gardner Asphalt's interpretation of the available data.

For Other Product Information Contact:

Manager, Customer Service
Gardner Asphalt Corporation
P.O. Box 5449
Tampa, FL 33675-5449
(813) 248-2101