



since 1895

## THE GARLAND COMPANY INC.

3800 EAST 91ST. STREET • CLEVELAND, OHIO 44105-2197  
PHONE: (216) 641-7500 • FAX: (216) 641-0633  
NATIONWIDE: 1-800-321-9336

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BUSINESS  
OFFICE

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CITY OF SYRACUSE S.D.  
DEPT OF BUSINESS  
725 HARRISON STREET  
SYRACUSE, NY. 13210

Dec. 16, 1992

Dear Customer:

Enclosed are the latest Material Safety Data Sheets (MSDS) on products you have recently ordered. These MSDS sheets are numbered;  
7821-M

and correspond to our product number. Please forward them to those individuals in your organization responsible for implementing your Hazard Communications Program and maintaining your MSDS files. Permission is granted to copy our MSDS for your internal purposes.

Please note that MSDS on certain Garland products may not be enclosed. These products include all rolled roofing materials that are "Articles" of manufacture as defined in 20CFR 1910.1200 and are exempt from OSHA Right-to-Know and MSDS requirements.

Should you have any questions, please don't hesitate to contact me at our toll free # 1-800-762-8225.

Sincerely,

THE GARLAND COMPANY

Andry Scholem  
MSDS Department



GARLAND MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GARLAND EMERGENCY MASTIC

CODE: 7821-M

NAV = NOT AVAILABLE  
NAP = NOT APPLICABLE

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SECTION I PRODUCT INFORMATION

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COMMON NAME: GARLAND EMERGENCY MASTIC

CHEMICAL NAME: MIXTURE

CAS NO.: NAP

PRODUCT USE: ROOF PATCHING COMPOUND

SUPPLIER: THE GARLAND COMPANY, INC.

ADDRESS: 3800 EAST 91ST. STREET, CLEVELAND, OHIO 44105

EMERGENCY PHONE NO.: 1-216-641-7335 - CALL COLLECT (24 hours)

INFORMATION PHONE NO.: 1-800-762-8225 OR 1-216-641-7500

DATE ISSUED: FEBRUARY 9, 1989

PREVIOUS DATE REVISED: AUGUST 24, 1992

DATE REVISED: OCTOBER 22, 1992

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SECTION II HAZARDOUS INGREDIENT INFORMATION

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INGREDIENT	%WT	CAS	PEL	TLV/ACGIH	LD50	LD50
ROOFING TAR (CONTAINS)	30-60	65996-89-6	NAV	NAV	NAV	NAV
COAL TAR PITCH VOLATILES	0-5	65996-93-2	0.2mg/m <sup>3</sup>	0.2mg/m <sup>3</sup>	NAV	NAV
COAL TAR	30-60	8007-45-2	NAV	NAV	NAV	NAV
NAPHTHALENE	3-7	91-20-3	15ppm	10ppm	NAV	NAV
ALIPHATIC PETROLEUM DISTILLATE	10-30	68553-00-4	(1)	NAV	NAV	NAV

(1) NIOSH RECOMMENDS A LIMIT OF 100 mg/m<sup>3</sup> 10h TWA.

HAZARDOUS INGREDIENT STATEMENT:

The product contains roofing tar which has components considered to be carcinogens or potential carcinogens under the requirements specified by OSHA 29 CFR 1910.1200 paragraph d-4. Coal tar pitch volatiles, soots, tars, and oils are listed as a carcinogenic category by OSHA, the National Toxicology Program, and the International Agency for Research on Cancer. It contains tar which has the following substances considered by the State of California as known to be a carcinogen: Benz(a)anthracene, Benzene, Benzo(b)fluoranthene, Benzo(j)fluoranthene, Benzo(k)-fluoranthene, Benzo(a)pyrene, Dibenz(a,h)acridine, Dibenz(a,j)acridine, Dibenz(a,h)anthracene, 7H-Dibenzo(c,g)-carbazole, Dibenzo(a,e)pyrene, Dibenzo(a,h)pyrene, Dibenzo(a,i)pyrene, Dibenzo(h,l)pyrene, Indenol(1,2,3-cd)pyrene, Creosote, Chrysene. Product also contains aliphatic petroleum distillates, which contain fuel oil #2. Materials similar to fuel oil #2 have been shown to produce skin carcinomas in lab animals. The above ingredients are on the Pennsylvania list of Hazardous and Special Hazardous Chemicals and are a subset of coal tar pitch volatiles that is listed as a special hazardous substance.

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SECTION III NON-HAZARDOUS INGREDIENTS  
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MAGNESIUM ALUMINUM SILICATE, 1-5%, CAS # 12174-11-7

CALCIUM CARBONATE, 10-30%, CAS # 1317-65-3

FINELY DIVIDED CELLULOSE AND CLAYS, 3-7%

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SECTION IV PHYSICAL & CHEMICAL DATA  
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- 1.) BOILING POINT: >150°C
- 2.) SPECIFIC GRAVITY: 1.2
- 3.) MELTING POINT: NAP
- 4.) VAPOR PRESSURE: <5 mm Hg at 20°C
- 5.) VAPOR DENSITY: Heavier than air
- 6.) EVAPORATION RATE: Slower than ethyl ether
- 7.) SOLUBILITY IN WATER: Negligible
- 8.) PH: Neutral
- 9.) VOLATILES: Less than 5%
- 10) FREEZING POINT: NAP
- 11) ODOR AND APPEARANCE: Black semi-liquid with strong coal tar odor.

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SECTION V FIRE AND EXPLOSION DATA  
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- 1.) FLASH POINT: >150°F (PENSKY MARTIN CLOSED CUP)
- 2.) AUTOIGNITION TEMPERATURE: NAV
- 3.) LEL (LOWER EXPLOSION LIMIT): NAV
- 4.) UEL (UPPER EXPLOSION LIMIT): NAV
- 5.) HAZARD CLASSIFICATION:  
FLAMMABLE: 2  
HEALTH: 3  
REACTIVITY: 0  
SPECIAL: 0  
(0=MINIMAL; 1=SLIGHT; 2=MODERATE; 3=SERIOUS; 4=SEVERE; HMIS RATING)
- 6.) EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemicals.

- 7.) **SPECIAL FIRE FIGHTING PROCEDURES:** Fire fighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid. Normal fire fighters procedures may be used.
- 8.) **UNUSUAL FIRE AND EXPLOSION HAZARD:** Never use welding or cutting torch on or near drum (even empty). Product can ignite explosively.
- A) **SENSITIVITY TO IMPACT:** No
- B) **SENSITIVITY TO STATIC DISCHARGE:** Yes

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SECTION VI REACTIVITY DATA

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- 1.) **STABILITY:** 0  
(0=MINIMAL; 1=SLIGHT; 2=MODERATE; 3=SERIOUS; 4=SEVERE; HMIS RATING)
- 2.) **MATERIALS TO AVOID:** Strong oxidizers
- 3.) **HAZARDOUS DECOMPOSITION:** Carbon monoxide, carbon dioxide and unidentified organic compounds
- 4.) **WILL POLYMERIZATION OCCUR:** No

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SECTION VII HEALTH HAZARD DATA

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- A) 1. **ROUTES OF ENTRY**
- A. **INHALATION:** 4
- B. **SKIN** : 3
- C. **INGESTION** : 3
- D. **EYES** : 3
- (0=MINIMAL; 1=SLIGHT; 2=MODERATE; 3=SERIOUS; 4=SEVERE; HMIS RATING)
2. **CARCINOGENICITY:** Coal tar pitch is IARC listed as a carcinogen in humans. Coal tar pitch tested positive to the Ames test. Asphalt and aliphatic petroleum distillate are IARC listed as a carcinogen in animals, but there is insufficient evidence that it is carcinogenic in humans.
3. **ACUTE HEALTH HAZARD:**

**INHALATION:** Coal tar vapors are irritating to skin, eyes and respiratory tract. Aliphatic petroleum distillate may cause nasal and respiratory irritation. Central nervous system effects include dizziness, weakness, fatigue, nausea, headache and possible unconsciousness and even asphyxiation.

**SKIN:** Direct skin contact may cause burning or itching, changes in pigmentation, and skin eruptions. Aliphatic petroleum distillate may cause moderate irritation, defatting and dermatitis.

**EYES:** Direct eye contact may cause inflammation, redness, discomfort, tearing, blurred vision, conjunctivitis, and possible abrasion of the cornea.

**INGESTION:** Harmful or fatal if swallowed. Symptoms of systemic poisoning may include gastrointestinal irritation, salivation, nausea, vomiting, diarrhea, respiratory difficulties, dizziness, headache, loss of pupillary reflexes, cyanosis, hypothermia, and mild convulsions. Aspiration of material into the lungs may cause chemical pneumonia which may lead to permanent and irreversible lung damage and even be fatal.

4. **EFFECTS OF CHRONIC EXPOSURE:** High vapor concentrations or chronic exposure to levels above the TLV may lead to systemic symptoms (see ACUTE EXPOSURE: INGESTION). Prolonged or repeated contact may lead to dermatitis and skin carcinomas.
5. **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Persons with preexisting skin disorders may be at increased risk from overexposure. Exposure to vapors may aggravate preexisting lung conditions.
6. **IRRITANCY:** Can be irritating to bronchial system, eyes, skin.
7. **SENSITIZATION:** Can cause skin rashes.
8. **REPRODUCTIVE TOXICITY:** None known.
9. **TERATOGENICITY:** None known.
10. **MUTAGENICITY:** None known.
11. **TOXICOLOGICABLE SYNERGISTIC PRODUCTS:** None known.

**B) EMERGENCY AND FIRST AID PROCEDURES:**

**Inhalation:** Remove immediately from exposure area to fresh air. If breathing has stopped, give artificial respiration. Give oxygen if respiration is shallow. Keep affected person warm and at rest. GET MEDICAL ATTENTION.

**Skin:** Remove contaminated clothing and shoes. Do not use solvents on skin as they may promote absorption of this material. Wash exposed area twice with waterless hand cleaner, soap and water, or mild detergent. Get medical attention if irritation or pain persists after washing. Do not reuse clothing until cleaned.

**Eyes:** Rinse immediately with large amount of water for at least 15 minutes, while holding eyelids open. GET MEDICAL ATTENTION.

**Ingestion:** Do not induce vomiting. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

**Decontamination Procedures:** Use emergency shower if available. Remove all contaminated clothing to prevent further absorption. Wash all clothing and exposed areas of the body twice with soap and water. Leather shoes that have been saturated should be discarded.

Note to Physician \*If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

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 SECTION VIII SAFE HANDLING AND USE  
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1. HANDLING AND STORAGE PRECAUTIONS:

Personal Hygiene Practices: Contact lenses should not be worn when handling this material. Do not smoke or eat in areas where this material is handled. Wash hands thoroughly before eating or smoking. A complete soap and water shower should be taken at the end of each work day. Contaminated clothes should not be reworn until cleaned.

Storage and Handling Precautions: Protect containers against physical damage. Outside or detached storage is preferable. Inside storage should be in standard combustible liquids storage room or cabinet.

Contaminated Equipment Repair/Maintenance Precautions: Wear protective equipment when performing maintenance on contaminated equipment.

2. STEPS TO BE TAKEN IF RELEASED OR SPILLED:

For large spills eliminate all ignition sources (flares, flames, pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

For small spills absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to a hood.

Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

3. WASTE DISPOSAL: Destroy by liquid incineration in accordance with applicable regulations. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

4. OTHER PRECAUTIONS: Vapors may travel to source of ignition. Personnel should avoid inhalation of vapors and personal contact with compound. Do not get the compound in the eyes or skin. Have respirator available. Keep out of the reach of children.

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 SECTION IX CONTROL OR PREVENTIVE MEASURES  
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1. VENTILATION: Product is normally applied outdoors. Make sure ventilation of building does not draw material indoors. If applied indoors, all operations should be in well ventilated areas, using NIOSH approved half-face filter at least.

2. GLOVES: Impermeable gloves

3. EYE PROTECTION: Chemical goggles

4. CLOTHING: Wear boots, impervious coats and face shield wherever necessary.

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SECTION X EPA 313 SUPPLIER NOTIFICATION:

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The following EPA 313 listed chemicals are used in this product:

NAPHTHALENE, 3-7%, CAS # 91-20-3

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SECTION XI CALIFORNIA PROPOSITION 65

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THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF SOME CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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SECTION XII PREPARATION DATA

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- 1. PREPARED BY: Joe Fogel
- 2. DATE PREPARED: October 22, 1992
- 3. PHONE NO.: (216) 641-7500

The information contained in this Material Safety Data Sheet has been prepared in accordance with the OSHA Hazard communication Standard CFR 1910.1200. This information relates specifically to the product designated and may not be valid for the product when used in combination with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness, whether originating within the company or not. The user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with applicable federal, state or local hazard communications requirements. We do not accept responsibility for any loss or damage which may occur from the use of this information.