



Millennium, Millennium Base, Millennium FR Mineral, Millennium Mineral

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Rolled Good

Product Name: Millennium, Millennium Base, Millennium Mineral

Product Code: 4601, 4602, 4603, 4620

Intended Use of the Product

Rolled good

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
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Garland Canada, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995
F-416-747-1980
www.garlandco.com

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

This is a voluntary MSDS. Under normal use this product is not expected to create any health or environmental hazards. This product meets the requirements of OSHA definition of an "Article" under 29 CFR 1910.1200(c) and does not require a Safety Data Sheet (SDS) as indicated under 29 CFR 1010.1200(b)(6)(v).

Under United States Regulations (29 CFR 1900.1200 – OSHA Hazard Communication Standard) the product listed above is exempt as an article under normal conditions of use. In Canada, this product is considered a manufactured article under the Workplace Hazardous Materials Information System (WHMIS) and is exempt. Under normal conditions of use the product listed in this SDS is not expected to pose a physical hazard or health risk to humans. These products do not contain any form of asbestos materials. The component exposure limits and other information in this document are provided for abnormal or emergency circumstances such as heating (above 250F), burning, cutting, sanding and/or grinding when there is a potential for exposure to these components.

Classification of the Substance or Mixture

Classification (GHS-US)

| | |
|-------------------|------|
| Acute Tox. Oral 4 | H302 |
| Irr. Skin 2 | H315 |
| Irr. Skin 3 | H316 |
| Damage Eye 2B | H320 |
| Muta. 1B | H340 |
| Carc. 1 | H350 |
| Repr. 1B | H360 |
| STOT RE 1 | H372 |

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

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Hazard Statements (GHS-US) :

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H316-Causes mild skin irritation
- H320 - Causes eye irritation
- H340-May cause genetic defects by route of exposure if conclusively proven that no other route applies
- H350 - May cause cancer by route of exposure if conclusively proven that no other route applies
- H360 - May damage fertility or the unborn child by route of exposure if conclusively proven that no other route applies
- H372 - Causes damage to organs through prolonged or repeated exposure by route of exposure if conclusively proven that no other route applies

Precautionary Statements (GHS-US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- H260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 - Wash face, hands and any exposed skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.
- P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
- P330 - Rinse mouth.
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P405 - Store locked up.
- P501 – Dispose of contents/container to hazardous or special waste collection point.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

| Name | Product Identifier | % (w/w) | Classification (GHS-US) |
|---|---------------------|---------|--|
| Pitch, coal tar, high-temp | (CAS No) 65996-93-2 | 55-65 | Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360 |
| Styrene-Butadiene-Styrene Block Copolymer | (CAS No) 9003-55-8 | 13-17 | Not a hazardous substance |
| Calcium Carbonate | (CAS No) 1317-65-3 | 7-11 | Acute Tox. Oral 4, H302 Skin Corr. Irr. 2, H315 Eye Irr. 2B, H320 STOT RE 1, H372 |
| Petroleum Oil | (CAS No) 64742-52-5 | 12-18 | Skin Corr. Irr. 3, H316 Eye Irr. 2B, H320 |

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| | | | |
|----------------|---------------------|------|--|
| Fire Retardant | (CAS No) 68333-79-9 | 5-15 | |
|----------------|---------------------|------|--|

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Discard any shoes or clothing items that cannot be decontaminated.

Inhalation: Remove victim from exposure area immediately to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Keep person warm and quiet.

Skin Contact: For contact with molten product, do not remove-contaminated clothing. Immediately flush skin with large amounts of cold water. If possible submerge area in cold water. Pack with ice and seek immediate medical attention. For other contact, remove contaminated clothing/shoes and wash exposed area with non-abrasive soap and water. Do not use solvents on skin as they promote absorption of this material. If irritation persists, get medical attention. Do not re-use work clothing until it has been thoroughly cleaned.

Eye Contact: If eye contact occurs, flush eyes immediately with large amounts of water for 15 minutes, occasionally lifting eyelids and get medical attention.

Ingestion: Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of the stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person. Consult local poison control center immediately!

Indication of Immediate Medical Attention and Special Treatment Needed

In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemicals, or water fog.

Unsuitable Extinguishing Media: Not available.

Advice for Firefighters

Precautionary Measures Fire: Not available

Special Protective Equipment and Precautions for Firefighters: Self-contained (full face MSHA/NIOSH) breathing apparatus and full protective clothing should be worn when fumes and/or smoke are present. Water or foam can be used to contain unconfined tar fires, however, water may cause frothing or splattering. Normal firefighting procedures may be used. Use water or water spray to cool fire exposed containers and structures and to protect personnel.

Specific Methods: Burning may emit hazardous fumes/vapors which may be in concentrations greater than PEL/TLVs. Burning may emit hazardous fumes, which can form flammable or explosive mixtures. Coal tar pitch at elevated temperatures may generate vapors that can form flammable/explosive mixtures in the presence of air and a source of ignition. Liquid molten pitch at elevated temperatures will sustain combustion. When used in conjunction with BLACK KNIGHT hot and cold coal tar products, please refer those MSDS for a complete listing of known hazards.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Material is not normally involved in a spill/release scenario.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

For Emergency Personnel

Environmental Precautions

No information available.

Methods and Materials for Containment and Cleaning Up

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Material is not normally involved in a spill/release scenario. Avoid breathing vapors and contact with the skin and eyes. Avoid sources of ignition. Ventilate the area if release occurs indoors. Use of water spray will aid in solidifying material and minimize vapor emissions. Contain runoff of fire control water. Do not allow runoff to enter into sewers, waterways or open bodies of water. When used in conjunction with BLACK KNIGHT hot and cold cal tar products, please refer those MSDS for a complete listing of known hazards.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid prolonged and repeated contact with skin or breathing of vapors, dusts, or fumes. Ensure work area is well ventilated. Wear appropriate protective equipment (see section VIII).

Conditions for Safe Storage, Including Any Incompatibilities

Store upright to prevent creasing. Keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Chemical Name | ACGIH TLV | OSHA PEL |
|--------------------------|-----------------------|-----------------------|
| Coal Tar Pitch Volatiles | 0.2 mg/m ³ | 0.2 mg/m ³ |

| Pitch, coal tar, high-temp (65996-93-2) | | |
|---|--------------------------------|-----------------------|
| ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ |
| ACGIH | Remark (ACGIH) | Cancer |

1. Because the substances listed above are incorporated into the product in a solid stable mixture, exposures exceeding the exposure limits are not likely to occur under normal conditions of use. The component exposure limits are provided for abnormal or emergency circumstances such as heating (above 250F), burning, cutting, sanding and/or grinding when there is a potential for exposure to these components. The limit of exposure is given for reference only.

Personal Protective Equipment

Eye/face Protection

Use safety glasses, splash goggles or face shield when eye contact may occur.

Skin Protection

For exposed skin, use protective barrier creams. Also protect skin from direct sunlight. For outdoor work use approved waterproof sunscreen with an SPF of 25 or greater. Re-apply every 90 minutes while in direct sun.

Respiratory Protection

If under normal conditions of use, irritation occurs, or if the TLV is exceeded, use a NIOSH/MSHA approved air purifying respirator with organic vapor cartridges or canisters and a dust/mist pre-filter. Not required for properly ventilated areas. When used in conjunction with BLAK KNIGHT hot and cold coal tar products, see MSDS for additional respirator information.

Clothing

Full long-sleeved clothing closed at the neck and non-porous gloves are recommended. In addition, aprons, jackets, caps, and heavy-soiled protective shoes are recommended to prevent skin contact with coal tar. To further reduce skin exposure, apply approved creams to form, an un-penetrable barrier on the skin. A complete change of work clothing should be used each day. Launder separately from other household clothing.

Ventilation

Use in areas with adequate natural ventilation or provide sufficient local/general exhaust ventilation in pattern/volume to maintain concentrations below the PEL/TLV and to maintain areas below flammable or explosive level concentrations.



Hygiene Measures

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Wash hands thoroughly before eating, drinking, smoking or using the restroom. A complete soap/water shower and/or steam bath should be taken at the end of every work day. Provide readily available eye wash and wash stations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance: Fibrous Membrane

Odor: Aromatic odor

Physical State: Solid

pH: Not Available

Flash Point: >374°F

Autoignition Temperature: Not Available

Boiling Point/Range: Not Available

Freezing Point: Not Available

Flammability Limits in Air: Not Available

Explosive Properties: Not Available

Oxidizing Properties: Not Available

Evaporation Rate: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Specific Gravity: Not Available

Water Solubility: Not Available

Volatiles: Not Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Open flames and intense heat.

Incompatible Materials: None known.

Hazardous Decomposition Products: Material does not decompose under normal conditions of use. Upon heating or burning, the material decomposes, and may emit hazardous carbon monoxide and dioxide, Oxides of nitrogen and sulfur, hydrocarbons.

Possibility of Hazardous Reactions: None under normal processing

SECTION 11. TOXICOLOGICAL INFORMATION

| Pitch, coal tar, high-temp (65996-93-2) | |
|---|--|
| IARC group | 1 - Carcinogenic to humans |
| Pitch, coal tar, high-temp (65996-93-2) | |
| LD50 oral rat | > 15000 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |

Chronic Toxicity

Long term exposure to Coal Tar Pitch Volatiles (CTPV), above the recommended exposure limit, has been associated with the development of skin, kidney, lung bladder and scrotum cancer.

Component Carcinogenicity

IARC Group 1 - Sufficient evidence of carcinogenicity in humans. No scientific study supports an association between coal tar pitch exposure and human reproductive hazards. Available data characterizes coal tar pitch as a mutagen.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

When used in conjunction with other BLACK KNIGHT hot and cold coal tar products, components could cause adverse effects on wildlife.

SECTION 13: DISPOSAL CONSIDERATIONS

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Waste Disposal Method: Dispose of in accordance with local, state, and federal regulations

US EPA Waste Number Not regulated

Waste Disposal Recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Unused and Contaminated Product: Offer rinsed packaging material to local recycling facilities.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated

TDG: Not regulated

MEX: Not regulated

ICAO: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

TSCA INVENTORY STATUS: All components of product are listed on EPA's TSCA Inventory.

OTHER TSCA ISSUES: Substance of unknown or variable composition.

SARA Title III/CERCLA

"Reportable Quantities" (RQS) and/or "Threshold Planning Quantities" (TPQS) exist for the following ingredients:

| Ingredient | CAS# | SARA/CERCLA RQ (lb) |
|--------------------------|-----------|---------------------|
| Acenaphthene | 83-32-9 | 100 |
| Anthracene | 120-12-7 | 5000 |
| Benzo (a) anthracene | 56-55-3 | 10 |
| Benzo (c) acridine | 225-51-4 | 100 |
| Benzo (b) fluoranthene | 205-99-2 | 1 |
| Benzo (k) fluoranthene | 207-08-9 | 5000 |
| Benzo (j) fluoranthene | 205-82-3 | |
| Benzo (a) pyrene | 50-32-8 1 | |
| Benzo (e) pyrene | 192-97-2 | |
| Chrysene | 218-01-9 | 100 |
| Dibenz (a,h) anthracene | 53-70-3 | 1 |
| Dibenzofuran | 132-64-9 | 100 |
| Fluranthene | 206-44-0 | 100 |
| Fluorene | 86-73-7 | 5000 |
| Indeno (1,2,3-cd) pyrene | 193-39-5 | 100 |
| 2-Methylnaphthalene | 91-57-6 | |
| Naphthalene | 91-20-3 | 100 |
| Phenanthrene | 85-01-8 | 5000 |
| Pyrene | 129-00-0 | 5000 |

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800-424-8802) and your local Emergency Planning Committee.

Section 313 Hazard Class: Immediate, Delayed, Fire

SARA 313 Toxic Chemicals

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percent's are found in Section II.

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| Ingredient | CAS# | Weight % |
|-------------------------------|----------|--------------------|
| Benzo (a) anthracene | 56-55-3 | 0.5 |
| Benzo (b) fluoranthene | 205-99-2 | 0.3 |
| Benzo (k) fluoranthene | 207-08-9 | 0.5 (includes (k)) |
| Benzo (j) fluoranthene | 205-82-3 | 0.1 |
| Chrysene | 218-01-9 | 0.1 |
| Benzo (g,h,i) perylene | 191-24-2 | 0.1 |
| Indeno (1,2,3-cd) pyrene | 193-39-5 | 0.1 |
| Phenanthrene | 85-01-8 | 1.2 |
| Polycyclic Aromatic Compounds | | 2.1 |

CA PROP 65: This product contains chemicals known to the State of California to cause cancer or reproductive toxicity.

WHMIS Hazard Class

Class D, Division 2, Subdivision A



This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the NSDS contains all of the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

Revision Date : 07-16-2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Party Responsible for the Preparation of This Document : The Garland Company, Inc.
3800 East 91st Street
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T-1800-762-8225
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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.