# Bognar and Company, Inc. SAFETY DATA SHEET

## Section 1. Identification

**GHS product identifier:** Pitch Coke

**Other means Of identification:** Calcined Pitch Coke

**Product type:** Solid

**Relevant identified uses of the substance or mixture and uses advised against:**

**Identified uses:** Manufacturing

**Uses advised against:** None known

---

**Supplier:**

**Bognar and Company, Inc.**
**733 Washington Rd.**
**Pittsburgh, PA 15228**
**Phone: 412-344-9900**
**FAX: 412-344-9909**
**www.ejbognar.com**

**Emergency telephone Number:** 412-344-9900 (24 hours)

## Section 2. Hazards Identification

**OSHA/HCS status :** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture:** COMBUSTIBLE DUSTS

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 0%

**GHS label elements**

**Hazard pictograms :** None

**Signal word :** Warning

**Hazard statements :** May form combustible dust concentrations in air

**Precautionary statements**

**Prevention :** None

**Response :** None

**Storage :** None

**Disposal :** None

**Supplemental Label Elements:** Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Prevent dust accumulation

**Hazards not otherwise Classified** None known

## Section 3. Composition/Information on Ingredients

**Substance or mixture:** Substance

**Other means of identification:** Calcined Pitch Coke

**CAS number/other identifiers**

**CAS number :** 65996-77-2

**Product code :** None

| Ingredient name | CAS number | % |
|---|---|---|
| Pitch Coke | 65996-77-2 | 100 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First Aid Measures

**Description of necessary first aid measures**

**Eye contact:** If in eyes, rinse cautiously for 15 minutes.
Remove contact lenses if present and easy to do.

**Skin contact:** If on skin or in hair, remove contaminated clothing.
Rinse with water
.

**Inhalation:** If exposed, concerned, or feel unwell: Get medical advice/attention.
Immediately call a POISON CENTER or physician.

**Ingestion** If swallowed, rinse mouth.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Inhalation :** Exposure to high concentrations of dust may cause irritation to the eyes, skin, and mucous membranes of the upper respiratory tract.

**Ingestion:** May cause nausea or vomiting.

**Skin contact:** Skin contact may cause irritation and/or dermatitis.

**Eye contact:** May cause irritation to the eyes.

**Over-exposure signs/symptoms**

**Eye contact:** Adverse symptoms may include the following:
Pain
Watering
Redness

**Inhalation:** May cause irritation to the eyes, skin, and mucous membranes of the upper respiratory tract.

**Skin contact:** Adverse symptoms may include the following:
Pain or irritation
Redness
Dermatitis

**Ingestion:** Adverse symptoms may include the following:

Stomach pains
Nausea
Vomiting

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician:** Individuals with chronic respiratory disorders (asthma, bronchitis, emphysema, etc.) may be adversely affected by any airborne particulate exposure.
Persons with pre-existing skin disorders may be more susceptible to dermatitis.

**Specific treatments:** Treat symptomatically.

**Protection of first-aiders:.** No action shall be taken involving any personal risk or without suitable training
If dust or fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 5. Firefighting Measures

**Suitable Extinguishing Media** Water Fog, CO2, Foam, Dry Chemical, or Sand.

**Specific hazards arising from the chemical:** When burned, toxic smoke and vapor may be emitted.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:

- Carbon dioxide
- Carbon monoxide
- Sulfur oxides.
- Nitrogen oxides
- Emits toxic fumes when heated.

If small particles are generated, they may form a combustible dust concentration in the air.

**Special protective actions for firefighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.
Direct water stream may scatter and spread flames.
Contain runoff from fire; do not allow into sewers or waterways.

**Special protective equipment for fire-fighters** Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency Personnel** No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas.
Keep unnecessary and unprotected personnel from entering.

**For emergency responders**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**

Avoid dispersion of material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air)

**Methods and materials for containment and cleaning up**

**Small or Large spill**

Stop leak if without risk.
If dusts are present, clean up personnel should have proper eye and skin protection.
Fine, dry material should be removed using vacuuming or wet sweeping to avoid dust generation.
Avoid using compressed air.
Dispose of via a licensed waste disposal contractor.
Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and Storage

**Protective measures for safe handling**

**Protective Measures:**

Put on appropriate personal protective equipment (see Section 8).
Do not get in eyes or on skin or clothing.
Do not breathe vapor or mist.
Do not ingest.
If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

**Advice on general occupational hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
Remove contaminated clothing and protective equipment before entering eating areas.
See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities**

Where feasible, store locked up.

## Section 8. Exposure Controls/Personal Protection

**Control parameters**

**Occupational exposure limits:**

US Occupational Safety and Health Administration Permissible Exposure Limit (OSHA PEL):

| | |
|---|---|
| Nuisance Dust | 15 mg/m$^3$ (total dust)<br>5 mg/m$^3$ (respirable fraction) |

*(See 29 CFR 1910.1000 Table Z-3)*

American Conference of Governmental and Industrial Hygienists Threshold Limit Value (ACGIH TLV®):

Particles Not Otherwise: 10 mg/m$^3$ (inhalable fraction)
Specified (PNOS) 3 mg/m$^3$ (respirable fraction)

*Note: TLV® and PEL values are for eight hour exposures, unless noted.*

**Appropriate Engineering controls:** If user operations generate dust use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits and dust below explosive limits.

**Environmental Exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing.
Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure.
Contact lenses should not be worn.

**Skin Protection**

**Hand Protection:** Wear protective gloves.

**Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

**Other Skin Protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH - approved respirator.
Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

## Section 9. Physical and Chemical Properties

**Appearance**

| | |
|---|---|
| **Physical State** | Solid |
| **Color** | Gray to black |
| **Odor** | No distinct odor |
| **Odor Threshold** | Not applicable |

| | |
|---|---|
| **pH** | Not applicable |
| **Melting Point** | Not applicable |
| **Boiling Point** | Not applicable |
| **Flash Point** | Not applicable |
| **Evaporation Rate** | Not available |
| **Flammability (solid, gas)** | May ignite |
| **Lower Explosive (flammable) Limit** | Not available |
| **Upper Explosive (flammable) Limit** | Not available |
| **Vapor Pressure** | Not available |
| **Vapor Density** | Not applicable |
| **Specific Gravity** | Not available |
| **Solubility** | Insoluble in water |
| **Partition coefficient: n-octanol/water** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **SADT** | Not available |
| **Viscosity** | Not available |
| **Bulk Density** | 1800 kg/m$^3$ |

## Section 10. Stability and Reactivity

**Reactivity:** No specific test data is available related to reactivity available for this product or its ingredients.

**Chemical stability:** The product is stable under normal conditions of handling and use.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid:** Avoid generation of dust as combustible dust explosion or fire may occur.

**Incompatible Materials:** Reactive or incompatible with the following materials:
Strong Acids, Strong Bases.

**Hazardous Decomposition Products** Oxides of carbon, sulfur, nitrogen oxides, sulfur oxides, and other toxic vapors may be released at elevated temperatures.

**Additional Information:** Under standard test conditions (ISO 6184/1) to ascertain explosivity, the dust is not explosive.

## Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity** Not available

**Irritation/Corrosion:** Prolonged or repeated contact with dust may be abrasive and mildly irritating to the skin.

**Sensitization** Not expected to be a sensitizer.

**Mutagenicity** Not available

**Carcinogenicity** Not available

**Reproductive toxicity** Not available

**Teratogenicity** Not available

**Specific target organ toxicity (single exposure)** Not available

**Specific target organ toxicity (repeated exposure)** Not expected to cause organ effects from repeated exposure. Low concentrations of airborne respiratory coke fibers may be present in calcined coke. The fibers are amorphous and generally irregularly shaped, rather than having the crystalline appearance of carbon fibers. Coke fibers have not been studied, but recent laboratory animal studies have shown that carbon fibers are biopersistent in the lung. These studies also demonstrated a lower inflammatory response in the lung and less proliferation of the alveolar cells than fibers that are known to cause fibrosis and lung cancer. Repeated exposure of rats to 10 and 30 mg/m$^3$ petroleum coke dust for two years resulted in signs of lung injury including fibrosis (scarring of lung tissue). Similar exposures in monkeys caused no significant lung effects.

**Aspiration hazard** Not available

**Information on the likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

**Eye contact :** Causes eye irritation.

**Inhalation :** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard.

**Skin contact :** May cause skin irritation or dermatitis.

**Ingestion :** Harmful if swallowed. May cause vomiting.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact:** Adverse symptoms may include the following:
- Pain
- Watering
- Redness

**Inhalation:** May cause irritation to the eyes, skin, and mucous membranes of the upper respiratory tract.

**Skin contact:** Adverse symptoms may include the following:
- Pain or irritation
- Redness
- Dermatitis

**Ingestion:** Adverse symptoms may include the following:
- Stomach pains
- Nausea
- Vomiting

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects:** May cause skin and eye irritation.

**Potential delayed effects :** None known.

**Long term exposure**

**Potential immediate effects:** Not available.

**Potential delayed effects :** None known.

**General:** No known significant effects or critical hazards.
**Carcinogenicity:** None known.
**Mutagenicity:** No known significant effects or critical hazards.
**Teratogenicity:** No known significant effects or critical hazards.
**Developmental:** No known significant effects or critical hazards.
**Fertility effects:** No known significant effects or critical hazards.

**Numerical measures of toxicity**
**Acute toxicity estimates**

Not available.

## Section 12. Ecological Information

**Toxicity**: Acute toxicity studies on samples of (petroleum) coke show that acute aquatic toxicity values are greater than 1000 mg/L for invertebrates, algae and fish. Elemental carbon, which is the principal constituent of (petroleum) cokes, poses no risk to aquatic organisms. Residual hydrocarbon concentrations are very low and have a high molecular weight. Such hydrocarbons are too water insoluble to cause acute aquatic toxicity. Therefore (petroleum) coke is unlikely to pose a long-term hazard to the environment

.

**Persistence and Degradability:** (Petroleum) cokes are not expected to meet the criteria for ready degradability. Elemental carbon and hence, (petroleum) coke is a persistent material. Also, any associated very high molecular weight hydrocarbons would only be very slowly biodegraded

.

**Bioaccumulative Potential:** Elemental carbon is not known to bioaccumulate. The very high molecular weight of any associated hydrocarbons, combined with their very low water solubilities, indicate that they are not likely to bioaccumulate. The trace hydrocarbon components of (petroleum) cokes have values for log Kow greater than 6.

**Mobility in soil** The hydrocarbon components of (petroleum) cokes have negligible vapor pressures at ambient temperature and volatility is not a significant fate process for these substance

**Other adverse effects:** No known significant effects or critical hazards

## Section 13. Disposal Considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the

requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
This material and its container must be disposed of in a safe way.
Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
Empty containers or liners may retain some product residues.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

| **Section 14.** | | | | **Transport Information** |
|---|---|---|---|---|
| | **DOT Classification** | **TDG Classification** | **IMDG** | **IATA** |
| | Not Regulated | Not Regulated | Not Regulated | Not Regulated |

**Special precautions for user:**

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

## Section 15. Regulatory Information

**U.S. Federal regulations**

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
**United States inventory (TSCA 8b)**: This material is listed.

**SARA 302/304**
**Composition/information on ingredients:** No products were found.

**SARA 304 RQ:** Not applicable.

**SARA 311/312**
**Classification :** Fire Hazard

**Section 313 listed:** No
**Listed material/compound:** Not Applicable

**State regulations**
**New Jersey:** None of the components are listed.
**Pennsylvania:** None of the components are listed.
**California Prop. 65:** Contains components known to the State of California to Cause cancer.

**International Lists**

**DSL (Canada)** All ingredients are listed, or exempt from inclusion, on the Canadian Domestic Substances List (DSL).

**Canada inventory (WHMIS):** Not Listed.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## Section 16. Other Information

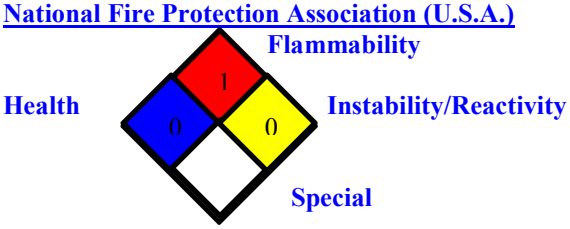
**Hazardous Material Information System (U.S.A.)**

| | |
|---|---|
| Health | 0 |
| Flammability | 1 |
| Physical Hazards | 0 |
| | |

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.**

**The customer is responsible for determining the PPE code for this material.**

**National Fire Protection Association (U.S.A.)**




**Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.**



**History**

| | |
|---|---|
| **Date of issue/Date of revision:** | May 29, 2015 |
| **Date of previous issue:** | None |
| **Version:** | 1 |
| **Prepared by:** | T Square Associates, Inc. **www.tsquare.us** |

This information contained herein has been compiled from sources believed to be reliable and to represent the best current opinion on the subject. No warranty, guarantee, or representation is made by us as to the absolute correctness or sufficiency of any representation contained in this and other Safety Data Sheets, and we do not assume any responsibility in connection therewith; nor can it be assumed than all acceptable safety measures are contained in this and other Safety Data Sheets, or that other or additional measures may not be required under particular or exceptional conditions or circumstances.