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An Axel Johnson, Inc. Company

MATERIAL SAFETY DATA SHEET

**PETROLEUM
COKE**

Content Last Revised 1/94;

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4 pages.

SECTION 1 - MATERIAL IDENTIFICATION		24 HOUR EMERGENCY INFORMATION	
PRODUCT / CHEMICAL NAME:	PETROLEUM COKE	Sprague:	603-431-1000
PRODUCT / CHEMICAL SYNONYMS:	PETROLEUM COKE	Chemtrec:	800-424-9300
CHEMICAL FAMILY / FORMULA:	CARBONACEOUS MATERIAL RESULTING FROM HIGH TEMPERATURE TREATMENT OF HEAVY PETROLEUM FRACTIONS (CAS 64741-79-3)	HMIS / NFPA HAZARD RATING	
MATERIAL USE OR OCCURRENCE:	MULTI-USE CHEMICAL/FUEL	4=EXTREME 3=SERIOUS 2=MODERATE 1=SLIGHT 0=MINIMAL	

SECTION 2 - INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS			
COMPOSITION	% WEIGHT AS RECEIVED	OSHA PEL	ACGIH TLV
Petroleum Coke*	~100	TWA: 0.2 mg/m ³ (benzene soluble fraction)	TWA: 0.2 mg/m ³ (benzene soluble fraction)
*limits based on coal tar pitch variables			

SECTION 3 - PHYSICAL DATA			
IGNITION TEMPERATURE:		% VOLATILITY BY VOLUME:	
MELTING POINT:	6332° F	VAPOR DENSITY HG 20C:	<.1
AVERAGE SPECIFIC GRAVITY:	0.8	SOLUBILITY IN WATER:	Below 0.1%
HETEROGENOUS - CARBONACEOUS			
APPEARANCE & ODOR: Irregular, black chunks; slight hydrocarbon odor.			



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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A

EXTINGUISHING MEDIUM: Water fog, CO2, Foam, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Use washdown and spread out method. Chemical fire fighting procedures should be used in consideration to hazards of other materials involved. In enclosed areas, use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Slippery under foot. This material will not burn.

SECTION 5 - HEALTH DATA

TOXICOLOGICAL TEST DATA: Ash from furnaces where coke has been burned can contain high concentrations of metals such as nickel and vanadium, which, if inhaled in sufficient quantities, can be harmful.

Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

ACUTE HEALTH EFFECTS		CHRONIC HEALTH EFFECTS
INHALATION	No significant irritation expected other than possible mechanical irritation. If adverse effects occur, remove to uncontaminated area. Get medical attention.	None established.
INGESTION	No significant health hazards expected if ingested. If large quantity is ingested or discomfort occurs, seek medical attention.	No data available.
SKIN CONTACT	Can cause skin irritation on prolonged or repeated contact. Wash contact areas with soap and water.	No data available.
EYE CONTACT	No significant irritation expected other than possible mechanical irritation. Flush eyes with plenty of water.	No data available.

FIRST AID PROCEDURES

First aid procedures generally don't apply to this product. Maintain exposure to coal dust according to applicable regulatory standards.



SECTION 6 - REACTIVITY DATA	
STABILITY:	Stable.
HAZARDOUS POLYMERIZATION:	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	None.
INCOMPATIBLES:	No problems expected.
TYPICAL DECOMPOSITION PRODUCTS:	Sulphur oxides, metal oxides, carbon monoxide.

SECTION 7 - SPECIAL PROTECTION		
RESPIRATORY PROTECTION:		Use with adequate ventilation.
VENTILATION	LOCAL EXHAUST:	MSHA/NIOSH approved dust respirator. Appropriate respirator depends upon type and magnitude of exposure.
	MECHANICAL (General):	Mechanically ventilate the work environment to reduce float dust concentration and to maintain normal atmospheric oxygen levels.
EYE PROTECTION:		Generally eye contact with solid material is unlikely. However, when handling in liquid form, chemical type goggles should be work.
PROTECTIVE GLOVES:		Work gloves if handling.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:		Good personal hygiene – clean work clothes. Other protective equipment as may be needed including emergency eyewash stations.

SECTION 8 - SPECIAL PRECAUTIONS	
PRECAUTIONS FOR SAFE HANDLING & STORAGE:	No special requirements.
SPILL AND LEAK PROCEDURES:	Contain and remove by mechanical means.
WASTE DISPOSAL METHOD:	Product is suitable for burning in an enclosed, controlled burner for fuel valve or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of

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these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 9 - DOT HAZARDOUS MATERIAL INFORMATION

PROPER SHIPPING NAME: PETROLEUM COKE		REQUIRED PLACARDING: NONE
HAZARD CLASS: Non-Hazardous	PACKING GROUP (P.G.): III	N.A./U.N. NUMBER: NONE

SECTION 10 - EPA SARA TITLE III INFORMATION

SECTION 311/312	ACUTE: N/A	CHRONIC: N/A	
HAZARD CLASSIFICATION: Non-Hazardous	FIRE: N/A	PRESSURE: N/A	REACTIVE: N/A

SECTION 11 - REMARKS

This material contains fused polycyclic hydrocarbons. The OSHA interpretation of coal tar pitch volatiles (Section 1910.1002) is as follows: "Coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatize from the distillation residues of coal, petroleum, wood, and other organic matter." The OSHA PEL and ACGIH TLV for coal tar pitch volatiles is 0.2 mg/M³ (basis one soluble fraction).

SECTION 12 - ADDITIONAL REGULATORY DATA

REPORTABLE COMPONENTS: FEDERAL EPA	%	SARA RQ	CERCLA RQ	RCRA NO.
PETROLEUM COKE	100	-----	-----	-----

NOTE: OSHA Regulations 29 CFR 1910.1200 (Hazard Communication) do not consider coal as a "hazardous material" and a Material Safety Data Sheet (MSDS) is not required. The information contained herein is based on data available at this time and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information shall make his own determination of the suitability of the material for his particular purpose.