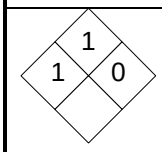
Husky Energy Material Safety Data Sheet

NFPA / WHMIS	Personal Protection	DOT/TDG Road/Rail
		

Section I. Product Identification and Uses

Common/Trade name	**Petroleum Coke Anode Fluid and Fuel Grade (Lima)**		
Synonyms	Fuel Coke; Green Coke: Uncalcined Coke; Thermocracked Coke, Delayed Coke, Pet Coke, Petroleum Coke	**CAS #**	64741-79-3
Chemical family	Carbon	**DSL**	This product is on the Domestic Substances List (DSL). TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
Supplier	Husky Lima Refinery, 1150 South Metcalf Street, Lima OH, 45804 403-298-6111 (General Information)	**Manufacturer**	Husky Lima Refinery 1150 South Metcalf Street Lima, OH 45804
Material uses	This product is intended for use as a refinery feedstock, fuel, or for use in engineered processes. Use in other applications may result in higher exposures and require additional controls, such as local exhaust ventilation and personal protective equipment.		

Section 2. First Aid Measures

Eye contact	Flush eyes for at least 15 minutes with clean water. Patch lightly, allowing drainage. Seek medical attention.
Skin contact	Remove contaminated clothing - launder before reuse. Wash contacted areas with soap and water. If irritation develops, consult a physician.
Inhalation	Appropriately protect rescuer. Move exposed person to fresh air. If breathing has stopped apply artificial respiration. Seek medical attention.
Ingestion	Not applicable.

Section 3. Hazardous Ingredients

		ACGIH TLVs (OSHA PELs in Section 7)						
Name	**CAS #**	**TWA (ppm)**	**TWA (Mg/M3)**	**STEL (ppm)**	**STEL (Mg/M3)**	**CEIL (ppm)**	**CEIL (Mg/M3)**	**% by Weight**
Petroleum Coke	64741-79-3	n/av	10	n/av	n/av	n/av	n/av	100
Toxicity values of the hazardous ingredients	Petroleum Coke Carbon LD50: 440 mg/kg mouse, intravenous							

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Section 4. Physical Data

Physical state and appearance	Black Solid.Granular solid.Powder.
Odor	Faint odor.
pH (1% soln/water)	Not applicable.
Odor threshold	Not available.
Evaporation rate	Not available.
Freezing point	Not available.
Boiling point	Not available.
Specific gravity	2.1 (Water = 1)
Volatility	Not available.
Vapor density	Not available.
Vapor pressure	Not available.
Water/oil dist. coeff.	Not available.
Solubility	Insoluble in water
Molecular Weight	Not applicable.
Melting Point	3550°C (6422°F) based on data for: Carbon.
Density	Not available.

Section 5. Fire and Explosion Data

Auto-ignition temperature	May be combustible at high temperature
Flash points	Not available.
Flammable limits	Not available.
Extinguishing Media	Dry chemical or carbon dioxide for small fires. Water spray or foam for large fires.
Special fire fighting procedures	Use self contained breathing apparatus (SCBA) for all indoor and significant outdoor fires.
Flammability	Slight fire hazard when exposed to heat or flames. Dust clouds can ignite on contact with excessively heated surfaces. **Remark** No additional remark.
Risks of explosion	Static: In the form of dust this product may be sensitive to static discharge. Mechanical Impact: This material is not sensitive to mechanical impact. **Remark** No additional remark.

Section 6. Reactivity Data

Stability	Stable under normal conditions.
Hazardous decomp. products	Carbon monoxide, carbon dioxide and irritant fumes and gases including sulfur oxides, nitrogen oxides and aldehydes.
Reactivity	Incompatible materials: oxidizing agents (chlorates, bromated, nitrates, etc.) Hazardous Polymerization: Will not occur. **Remark** No additional remark.

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Section 7. Toxicological Properties

Routes of entry	* INHALATION * EYE * SKIN
OSHA PEL	Particulate - Total OSHA PEL 15 mg/m3 (8 hour TWA) Particulate - Respirable OSHA PEL 5 mg/m3 (8 hour TWA)
Toxicity to animals	Petroleum Coke Carbon LD50: 440 mg/kg mouse, intravenous
	Remark No additional remark.
Chronic effects	No known significant effects or critical hazards.
	Remark No additional remark.
Acute effects	Irritancy: Skin, eye and respiratory tract irritant. Sensitizing Capability: No effects known.
Ingestion	Not applicable.
Skin	Prolonged skin contact may result in skin irritation or dermatitis.
Eyes	Eye contact with product may result in irritation.
Inhalation	Inhalation of product may result in respiratory irritation. Prolonged exposure to dust above the recommended exposure limit may result in lung diseases such as pneumoconiosis.
	Remark No additional remark.
Synergistic materials	None known.

Section 8. Preventive Measures

Waste disposal	Dispose of in accordance with all federal, state/provincial and local regulations.
Storage	Store and use away from heat, sparks, open flame, or any other ignition source. Avoid generation and accumulation of dust. Head spaces in storage containers and confined spaces may contain hydrocarbon vapors.
Ventilation	In poorly ventilated areas, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dust below the exposure limit.
Spill and leak	Evacuate unecessary personnel. Eliminate all ignition sources. Stop leak if without risk. Contain spill and absorb with inert absorbent. Large spills should be removed with explosion proof vacuum equipment. Large pools may be covered with foam to prevent vapor evolution. Comply with federal,state/provincial, and local requirements for spill notification.

Section 9. Classification/Regulatory Information

DOT/TDG Road/Rail	Not controlled under TDG (Canada).
	
	Not applicable (PIN and PG).
	Remark No additional remark.
WHMIS	Not controlled under WHMIS (Canada).
	Remark

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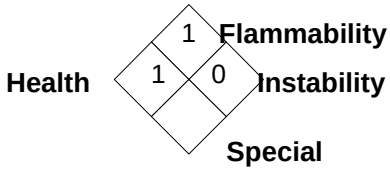
No additional remark.

Other TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory. Domestic Substances List (DSL): This product is listed on the DSL.
Refer to federal, state/provincial, and local legislation for further requirements.

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



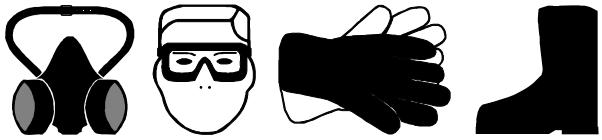
Section 10. Protective Clothing

Eye Non vented goggles to prevent eye irritation from airborne dust.

Skin Gloves are recommended for repeated or prolonged contact.

Respiratory Respiratory equipment may be required where airborne dust is generated and where engineering controls, work practices or other means of exposure reduction are not adequate. An oil resistant dust mask will provide protection at low concentrations. Wear NIOSH approved respiratory protection adequate for the expected concentration of the substance in the air.

Other As required by the situation according to your companies policies and procedures. Contact your supervisor for direction.



Section 11. Preparation Information

References -CCOHS (Cheminfo). -SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -Tomes Plus by Micromedex Inc.

MSDS Status

Acronyms: TLV = Threshold Limit Value N/AP = Not applicable N/AV = Not Available COC = Cleveland Open Cup PMCC = Pensky Martens Closed Cup

Validated by Health & Safety Department on 5/23/2008.	**Verified by Health & Safety Department.**
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Emergency Phone # Canada: 403-262-2111
Emergency Phone # USA: Chemtrec 1-800-424-9300

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