
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Calcined petroleum coke

PRODUCT NUMBER: 000172 (A0045)

SUPPLIER: Rio Tinto Alcan (RTA)
Primary Metal
1188 Sherbrooke West
Montréal, Québec H3A 3G2
Canada

Emergency phone : 1-800-567-7455 *
Phone : 514 848-8000
Fax : 514 848-8115/8116

* Please call collect for outside calls of North America.

****See section 16 for producer(s) identification****

APPEARANCE AND ODOUR: Black odourless solid.

USES: Raw material for electrode production.

2. COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	LD ₅₀	LC ₅₀	CONC.
Calcined petroleum coke	64743-05-1	Unknown	Unknown	> 95%
Sulfur	7704-34-9	Unknown	Unknown	0.5 - 4.5%

3. HAZARDS IDENTIFICATION

Not hazardous.

4. FIRST AID MEASURES

INHALATION: If overcome by high dust concentrations, remove to a ventilated area.

SKIN CONTACT: Wash skin thoroughly with soap and water. Do not scrub, since the abrasion may cause irritation.

EYE CONTACT: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician. Do not rub, since abrasion and damage to the cornea may occur.

INGESTION: Not applicable

5. FIRE-FIGHTING MEASURES

Combustible.

EXTINGUISHING MEDIA: Moderate fire hazard if exposed to heat, fire or strong oxidising agents. Extinguishing media: dry chemical, water mist. In case of fire, wear self-contained breathing apparatus and fire-resistant clothing.

HAZARDOUS COMBUSTION PRODUCTS: If heated to decomposition, emits carbon monoxide, carbon dioxide, sulphur dioxide and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Avoid spreading dust. Avoid contaminating surface water, waterways or sewers leading to surface water. Collect and place in clearly-identified appropriate containers. Use methods which do not result in environmental contamination. Recycle if possible.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid generating dust during handling. Coke dust is electrically conductive and can cause short circuits. Equipment must be grounded.

STORAGE CONDITIONS: Store away from oxidising agents. Ensure that airborne dust is not generated during storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. Wear eye and respiratory protection (goggles and mask), or a full-face respirator if necessary. Wear gloves.

EXPOSURE LIMITS:

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Calcined petroleum coke	None	None	None	None
Sulfur	None	None	None	None
Nuisance particulates tot. (PNOS)	10 mg/m ³	None	15 mg/m ³	None
Respirable dust	3 mg/m ³	None	5 mg/m ³	None

(ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; OSHA = Occupational Safety and Health Administration [USA]; PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; STEL = Short Term Exposure Limit; C = Ceiling value)

9. PHYSICAL AND CHEMICAL PROPERTIES

PH:	Not applicable	FLASHPOINT:	Not applicable
BOILING POINT:	Not applicable	AUTOIGNITION TEMPERATURE:	Not determined
MELTING POINT:	Not applicable	LOWER FLAMMABLE LIMIT:	Not applicable
VAPOUR PRESSURE:	Not applicable	HIGHER FLAMMABLE LIMIT:	Not applicable
VAPOUR DENSITY (AIR = 1):	Not applicable	EXPLOSIVE PROPERTIES:	Not determined
EVAPORATION RATE:	Not applicable	NFPA FIRE CODE:	1
RELATIVE DENSITY (WATER = 1):	2.1	OXIDISING PROPERTIES:	Not applicable
WATER SOLUBILITY:	Insoluble.	PARTITION COEFFICIENT (N-OCTANOL/WATER):	Not determined
ODOUR THRESHOLD:	Not determined		

10. STABILITY AND REACTIVITY

STABLE (YES/NO): Yes

CONDITIONS AND MATERIAL TO AVOID: Incompatibility with strong oxidizers, especially when heated.

HAZARDOUS DECOMPOSITION PRODUCTS: If heated to decomposition, emits carbon monoxide, carbon dioxide, sulphur dioxide and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

INHALATION:	Yes	INGESTION:	No		
EYE CONTACT:	No	SKIN CONTACT:	No	SKIN ABSORPTION:	No

ACUTE EFFECTS:

INHALATION: Inhalation of high concentrations of these inert nuisance particulates can result in mild irritation of the respiratory tract.

SKIN CONTACT: May cause irritation through mechanical abrasion.

EYE CONTACT: May cause irritation through mechanical abrasion.

INGESTION: Not applicable

CHRONIC EFFECTS:

Prolonged and repeated overexposure to dust can lead to a benign pneumoconiosis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT: Not determined

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: None of the ingredients present at concentrations equal to or greater than 0.1% are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

[IARC = International Agency for Research on Cancer; NTP = National Toxicology Program (USA); OSHA = Occupational Safety and Health Administration (USA)]

12. ECOLOGICAL INFORMATION

No effects are expected from this insoluble product because insolubility leads to non-bioavailability.

13. DISPOSAL CONSIDERATIONS

Recycle if possible. Dispose of waste in accordance with federal, state, or local regulations.

14. TRANSPORT INFORMATION

TDGR: not regulated CFR 49: not regulated IMO: not regulated ICAO: not regulated IATA: not regulated

[TDGR = Transport of Dangerous Good Regs.(Canada). CFR 49 = Code of Federal Regs.(USA). IMO = International Maritime Organization. ICAO = International Civil Aviation Organization. IATA = International Air Transport Association]]

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION (CANADA):	Not controlled
EUROPEAN UNION CLASSIFICATION:	Not classified
WARNING SYMBOL:	None
WARNING WORD:	None
RISK PHRASES:	None
SAFETY PHRASES:	None

USA REGULATIONS :Section 313 Supplier Notification

This product does not contain any chemicals in concentrations subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (Title III of SARA) and of 40 CFR 372.

16. OTHER INFORMATION

Suppliers or plants :

Rio Tinto Alcan

Primary Metal

Arvida Works

P.O. Box 1500

Jonquière, Québec

Canada G7S 4L2

Emergency phone : 1-800-567-7455 *

Phone : 418-699-2111, poste 2734

Fax : 418-699-2043

Rio Tinto Alcan

Primary Metal

Strathcona Works

P.O. Box 5850 station L

Edmonton, Alberta, Canada

T6C 4G3

Emergency phone : 1-800-567-7455 *

Phone : 780-467-9422

Fax : 780-467-0461

* Please call collect for outside calls of North America.

ABBREVIATIONS:

WHMIS = Working hazardous material information system. CAS number = Chemical Abstracts Service Registry Number.

LD₅₀ = Lethal dose 50%; LC₅₀ = Lethal concentration 50%; LCL₀ = Lowest published lethal concentration. EU = European Union.

*** Although the information in this SDS was obtained from sources which we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied. ***

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DATE OF THE PREVIOUS REVISION: 2007-03-15

REASON FOR REVISION: Modification in section 1.