
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Calcined anthracite dust BK-04.

PRODUCT NUMBER: 000031

SUPPLIER: Rio Tinto Alcan (RTA)
 Primary Metal Group
 Cathodic Products Center
 P.O. Box 1500, bldg. 252
 Jonquière, Québec, Canada
 G7S 4L2

Emergency phone : 1-800-919-1718
Phone : 418-699-3652
Fax : 418-699-2721

* Please call collect for outside calls of North America.

APPEARANCE AND ODOUR: Black granules, without odor.

USES: Process by-product used as combustible, in electrodes production, in metallurgy, etc. .

2. COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	LD ₅₀	LC ₅₀	CONC.
Calcined anthracite	68187-59-7	Unknown	Unknown	> 99%
Silicates	-----	Unknown	Unknown	< 1 %

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 cleanse skin too vigorously, since this may aggravate 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 scrub, since the abrasion may cause irritation.

INGESTION: Not applicable

5. FIRE-FIGHTING MEASURES

Combustible.

EXTINGUISHING MEDIA:

Water mist, foam, carbon dioxide. Wear a self-contained breathing apparatus if necessary. Finely-divided, concentrated dust may ignite or explode when heated. Moderate fire hazard if exposed to heat, fire or strong oxidizing agents.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides, sulfur and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Avoid spreading dust. Avoid contaminating ground 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. Ventilate adequately. If this is not possible, wear appropriate breathing apparatus.

STORAGE CONDITIONS: Store away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. Avoid prolonged or repeated skin contact. Wear eye and respiratory protection (goggles and mask), or a full-face respirator if necessary. Wear clothes that fit tightly at the wrist and ankle.

Exposure limits:

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Carbon (coal) dust (respirable) < 5% SiO ₂	None	None	2.4 mg/m ³	None
- > 5% SiO ₂	None	None	10 mg/m ³ /(%SiO ₂ +2)	None
Coal dust (anthracite respirable fraction)	0.4 mg/m ³	None	None	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; Ceiling = Ceiling value)

9. PHYSICAL AND CHEMICAL PROPERTIES

PH:	Not applicable	FLASHPOINT:	Not determined
BOILING POINT:	Not determined	AUTOIGNITION TEMPERATURE:	> 170°C
MELTING POINT:	Not determined	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):	1.88	OXIDIZING PROPERTIES:	Not determined
WATER SOLUBILITY:	Insoluble	PARTITION COEFFICIENT (N-OCTANOL/WATER):	Not determined
ODOUR THRESHOLD:	Not determined	GRANULOMÉTRIE :	-200 mesh : 49%
			-325 mesh : 39%
			-425 mesh : 17%

10. STABILITY AND REACTIVITY

STABLE (YES/NO): Yes

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

HAZARDOUS DECOMPOSITION PRODUCTS: A thermo-oxidative degradation results in the emission of toxic gases of carbon, nitrogen and sulphur 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 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:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT: Not determined

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

16. OTHER INFORMATION

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.

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