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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Bauxite.

**PRODUCT NUMBER:** 000089 (A0024)

**SUPPLIER:** Rio Tinto Alcan (RTA)  
Bauxite and Allumina  
1188 Sherbrooke West  
Montréal, Québec  
Canada  
H3A 3G2

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

\* Please call collect for outside calls of North America.

**SYNONYMS:** Porocel; laterite.

**APPEARANCE AND ODOUR:** Reddish earth with pronounced odour.

**USES:** Ore. Aluminum oxide extraction.

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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NAME	CAS #	LD <sub>50</sub>	LC <sub>50</sub>	CONC.
Aluminum hydroxide	21645-51-2	Unknown	Unknown	45 – 55%
Aluminum oxide monohydrate	-----	Unknown	Unknown	0.1 – 5%
Ferric oxide	1309-37-1	Unknown	Unknown	3 – 17%
Silicates (as SiO <sub>2</sub> )	-----	Unknown	Unknown	0.8 – 5%
Titanium oxide	13463-67-7	Unknown	Unknown	0.3 – 5%
Water	7732-18-5	Unknown	Unknown	25 – 32%

\* Analysis on dry basis.

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## 3. HAZARDS IDENTIFICATION

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Not hazardous.

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## 4. FIRST AID MEASURES

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**In case of dust exposure:**

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

**SKIN CONTACT:** Not applicable.

**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.

**INGESTION:** Not applicable.

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## 5. FIRE-FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Non combustible.

**HAZARDOUS COMBUSTION PRODUCTS:** Not applicable

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## 6. ACCIDENTAL RELEASE MEASURES

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Collect solids. Recycle if possible.

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## 7. HANDLING AND STORAGE

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**HANDLING PRECAUTIONS:** Avoid generating dust during handling.

**STORAGE CONDITIONS:** Not applicable

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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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.

### EXPOSURE LIMITS:

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Nuisance particulates tot. (PNOS )	10 mg/m <sup>3</sup>	None	15 mg/m <sup>3</sup>	None
Respirable dust	3 mg/m <sup>3</sup>	None	5 mg/m <sup>3</sup>	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)

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>PH:</b>	Not applicable	<b>FLASHPOINT:</b>	Not applicable
<b>BOILING POINT:</b>	Not applicable	<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable
<b>MELTING POINT:</b>	Not applicable	<b>LOWER FLAMMABLE LIMIT:</b>	Not applicable
<b>VAPOUR PRESSURE:</b>	Not applicable	<b>HIGHER FLAMMABLE LIMIT:</b>	Not applicable
<b>VAPOUR DENSITY (AIR = 1):</b>	Not applicable	<b>EXPLOSIVE PROPERTIES:</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not applicable	<b>NFPA FIRE CODE:</b>	0
<b>RELATIVE DENSITY (WATER = 1):</b>	2.4 – 2.8	<b>OXIDIZING PROPERTIES:</b>	Not applicable
<b>WATER SOLUBILITY:</b>	Insoluble.	<b>PARTITION COEFFICIENT</b>	Not applicable
<b>ODOUR THRESHOLD:</b>	Not determined	<b>(N-OCTANOL/WATER):</b>	

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## 10. STABILITY AND REACTIVITY

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**STABLE (YES/NO):** Yes  
**CONDITIONS AND MATERIAL TO AVOID:** Not applicable  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable

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## 11. TOXICOLOGICAL INFORMATION

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### ROUTES OF EXPOSURE:

<b>INHALATION:</b>	Yes	<b>INGESTION:</b>	No		
<b>EYE CONTACT:</b>	No	<b>SKIN CONTACT:</b>	No	<b>SKIN ABSORPTION:</b>	No

### ACUTE EFFECTS:

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

**SKIN CONTACT:** Not applicable

**EYE CONTACT:** May cause irritation through mechanical abrasion.

**INGESTION:** Not applicable

### CHRONIC EFFECTS:

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT:** Not applicable

**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)]

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## 12. ECOLOGICAL INFORMATION

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No effects are expected from this naturally occurring substance.

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## 13. DISPOSAL CONSIDERATIONS

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Recycle if possible. This substance is inert and does not require special disposal methods. Dispose of waste in accordance with federal, state, or local regulations.

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## 14. TRANSPORT INFORMATION

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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)]

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## 15. REGULATORY INFORMATION

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

### TSCA - DSL [USA - Canada]

Bauxite is a natural substance which is de facto registered on the Domestic Substances List {DSL - Canadian Environmental Protection Act - Canada} as well as on the Chemical Substances Inventory of the Toxic Substances Control Act {TSCA Inventory - USA}.

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## 16. OTHER INFORMATION

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### ABBREVIATIONS:

WHMIS = Working hazardous material information system. CAS number = Chemical Abstracts Service Registry Number.  
LD<sub>50</sub> = Lethal dose 50%; LC<sub>50</sub> = Lethal concentration 50%; LCL<sub>0</sub> = 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:** 2007-03-21

**REASON FOR REVISION:** Modification in section 1.