

---

**1. Product and company identification**


---

**Product name :** Ground calcined alumina.

**SDS number :** 000221

**Synonym (s) :** Alundum, Alumina gamma, Lundum, Alumina beta, Corundum, Calcined alumina.

**Use (s) :** Refractory material. Aluminium production. Ceramic materials.

**Appearance and odour :** White odourless powder.

**Supplier :** Alcan Specialty Aluminas  
Division of Alcan Inc.  
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.

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

**Prepared by :** Alcan Toxicology Service  
P.O. Box 1500, Jonquière (Québec)  
Canada, G7S 4L2

Phone: 418-699-2949  
Fax : 418-699-2993  
E-mail : [servicetoxico@alcan.com](mailto:servicetoxico@alcan.com)

---

**2. Hazards identification**


---

Not hazardous.

---

**3. Composition / Information on ingredients**


---

Components :

CAS	EC number	Designation	Content	Warning symbol (s)	R Phrase(s)
1344-28-1	215-691-6	Aluminum oxide	100 %	-	-

Identification number of the European Commission relative to EINECS ( European Inventory of Existing Commercial chemical Substances ) or ELINCS ( European List of Notified Chemical Substances ).

---

**4. First Aid**


---

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

**Skin contact :** Wash skin thoroughly with soap and water.

**Eyes 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

---

**5. Fire fighting measure (s)**


---

**Extinguishing media :** Non combustible.  
**Hazardous combustion product(s) :**  
 Not applicable

---

**6. Accidental release measures**


---

**Environmental protection / cleaning method(s):**  
 Collect solids. Recycle if possible.

---

**7. Handling and storage**


---

**Handling precautions :** Avoid generating dust during handling.  
**Storage conditions :** Not applicable

---

**8. Exposure controls / Personal protection**


---

**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.

**Exposure limits:**

CAS number	Designation	Exposure limits				
		ACGIH (TLV®)	TWA:	STEL :	none	
1344-28-1	Aluminum oxide	ACGIH (TLV®)	TWA: 10 mg/m <sup>3</sup>	STEL :	none	
		OSHA ( PEL)	TWA: 15 mg/m <sup>3</sup>	CEILING :	none	
	*	Total dust	OELs	AEL : 10 mg/m <sup>3</sup>	SEL :	none
	*	Respirable dust	OSHA ( PEL)	TWA: 5 mg/m <sup>3</sup>	CEILING :	none

(ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health Administration; TLV ®= Threshold Limit Value [USA]; PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; STEL = Short Term Exposure Limit; C = Ceiling value; OELs= Occupational Exposure Limit values; AEL= Average Exposure Limit values; SEL= Short-form Exposure Limit values; CAS = Number of Chemical Abstracts Service.)

---

**9. Physical and chemical properties**


---

<b>pH :</b>	Not applicable	<b>Flash point :</b>	Not applicable
<b>Boiling point :</b>	> 2900 °C	<b>Autoignition temperature :</b>	Not applicable
<b>Melting point :</b>	2030 °C	<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>Évaporation rate :</b>	Not applicable	<b>NFPA fire code :</b>	0
<b>Relative density (water=1) :</b>	4.0	<b>Oxidizing properties :</b>	Not applicable
<b>Water solubility :</b>	Insoluble.	<b>Partition coefficient (n-octanol/water) :</b>	Not applicable
<b>Odour threshold :</b>	Not determined		

---

**10. Stability and reactivity**

---

**Stable (yes/no) :** Yes  
**Conditions and material to avoid :**  
Not applicable  
**Hazardous decomposition product(s) :**  
Not applicable

---

**11. Toxicological information**

---

**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.  
**Eyes contact :** May cause irritation through mechanical abrasion.  
**Ingestion :** Not applicable

**Chronic effects :**

**Medical conditions aggravated by exposure to the product :**  
Not applicable

**Carcinogenicity :** 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)]

**Mutagenicity :** No data available.

**Reproductive toxicity :** No data available.

---

**12. Ecological information**

---

**Ecotoxicity :** Aluminum oxide and its various chemical forms, such as alpha, beta, gamma, alumina hydrate and aluminum hydroxyde do not present any hazard for the environment.  
**Mobility :** No data available.  
**Persistence/ biodegradability :**  
No data available.  
**Bioaccumulation :** No data available.

---

**13. Disposal considerations**

---

**Methods of disposal :**  
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.

---

**14. Transport information**

---

TDGR: not regulated ; ADR : not regulated ; CFR 49: not regulated ; IMO: not regulated ; ICAO: not regulated ; IATA: not regulated .

(TDGR = Transport of Dangerous Good Regs.(Canada). ADR : European agreement relative to international transport of dangerous goods by road. CFR 49 = Code of Federal Regs.(USA). IMO = International Maritime Organization. ICAO = International Civil Aviation Organization. IATA = International Air Transport Association.)

---

**15. Regulatory information**


---

**Canadian regulation :**

**WHMIS classification :**  
 Not controlled  
 WHMIS: Working Hazardous Material Information System.

**NPRI [Canada]**

This product is not subject to the mandatory reporting requirements of the National Pollutant Release Inventory (NPRI) pursuant to the Canadian Environmental Protection Act (CEPA).

**European union classification :**

Not classified  
**Warning symbol(s) :**  
 None  
**Risk phrase(s) :**  
 None  
**Safety phrase(s) :**  
 None

**USA regulation(s) :****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.

**TSCA - DSL [USA - Canada]**

This substance or all the ingredients of this product are 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]). The presence on these lists does not require any legal reporting.

---

**16. Other information**


---

**National Fire Protection Agency (NFPA) codes - (Health, flammability, reactivity) :** 0, 0, 0  
**Hazardous Material Information System (HMIS) - (Health, flammability, reactivity) :** 0, 0, 0

Product grades available by manufacturer (this list may be incomplete) :

MANUFACTURER	GRADES	MANUFACTURER	GRADES
<b>Alcan Primary Metal Group</b> Jonquière Works P.O Box 1500 Jonquière, Québec Canada G7S 4L2	C1, C17, C-713, CAR, CF Séries CF40, C60, C70, C80, C90, AM, MA, A50TF, XA, AMP, RAR40, RAR50, RAC40, RAC50, RAC30, RAC60	<b>Alcan Bauxite and Alumina</b> Alcan Specialty Aluminas Gardanne Works 13541 Gardanne France Phone : (33) 04 42 65 22 22 Fax : (33) 04 42 51 41 79	AC34B34 / AC34B5 / AC34B6 / AC44B4 / AC44B5 / AC44B6 / AR12B5 / AR12B25 / P122B / P662B / P152SB / P172SB / PFR / PFR15 / PFR20 / PBR / PMR

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.

This safety data sheet is in accordance with WHMIS, directives 2001/58/CE and AINSI Z400.1-2003.

Version 1 : 2005-03-30  
 New material safety data sheet.

Material safety data sheet (MSDS)