



## 1. Product and company identification

**Product name :** Alumina hydrate

**SDS number :** 000219

**Synonym (s) :** Alumina Trihydrate, ATH, Product Hydrate, Aluminium Hydroxide, Hydrated Alumina, Aluminum Trihydroxide.

**Use (s) :** Refractory material. Abrasive. Flame retardant and smoke suppressant for polymers. Ceramic materials. Aluminum fluoride. Aluminum sulfate production.

**Appearance and odour :** White or cream powder; odourless.

**Supplier :** Rio Tinto Alcan (RTA)  
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.  
<http://www.msds.riotintoalcan.com/>

Distributed by:  
Laguna Clay Company  
14400 Lomitas Ave  
City of Industry, CA 91746  
1-800-4Laguna  
[info@lagunaclay.com](mailto:info@lagunaclay.com)  
[www.lagunaclay.com](http://www.lagunaclay.com)

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

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

Phone: 418 699-2707  
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)
21645-51-2	244-492-7	Aluminum hydroxide	> 99 %	-	-

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




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## 5. Fire fighting measure (s)

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Extinguishing media : Non combustible.

Hazardous combustion product(s) :

Not applicable

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## 6. Accidental release measures

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Environmental protection / cleaning method(s):

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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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					
1344-28-1	Aluminum oxide	ACGIH (TLV®)	TWA :	10 mg/m <sup>3</sup>	STEL :	none	
		• Total dust	OSHA ( PEL)	TWA :	15 mg/m <sup>3</sup>	CEILING :	none
			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-term Exposure Limit values; CAS = Number of Chemical Abstracts Service.)

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## 9. Physical and chemical properties

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pH :	Not applicable	Flash point :	Not applicable
Boiling point :	> 2900 °C	Autoignition temperature :	Not applicable
Melting point :	2030 °C	Lower flammable limit :	Not applicable
Vapour pressure :	Not applicable	Higher flammable limit :	Not applicable
Vapour density (air=1)	Not applicable	Explosive properties :	Not applicable
Évaporation rate :	Not applicable	NFPA fire code :	0
Relative density (water=1) :	2.4	Oxidizing properties :	Not applicable
Water solubility :	Insoluble.	Partition coefficient (n-octanol/water) :	Not applicable



Odour threshold : Not determined

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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 product(s) :**  
Not applicable

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## 11. Toxicological information

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### 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.  
**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.

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## 12. Ecological information

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**Ecotoxicity :** Aluminum oxide and its various chemical forms, such as alpha, beta, gamma, alumina hydrate and aluminum hydroxide do not present any hazard for the environment.

**Mobility :** No data available.

**Persistence/ biodegradability :**  
No data available.

**Bioaccumulation :** No data available.

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## 13. Disposal considerations

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### 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.

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## 14. Transport information

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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
Rio Tinto Alcan Jonquière Works P.O Box 1500 Jonquière, Québec Canada G7S 4L2	H-10, H-10 Filtercake, Série Onyx Premier, Série WH & WP	Rio Tinto Alcan Gardanne Works 13541 Gardanne France	AH500 / AH950 / AHN/ SH500 / SH600 / SH950 / SH30 / SH80 / SH100 / SH150 / SH300 / SHN/ IGAL6.

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

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Reason for revision:	Global revision of information.
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