



Safety Data Sheet

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

Distributed by:
Laguna Clay Company
14400 Lomitas Ave
City of Industry, CA 91746
1-800-4Laguna
info@lagunaclay.com
www.lagunaclay.com

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/>

****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

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



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					
1344-28-1	Aluminum oxide	ACGIH (TLV®)	TWA :	10 mg/m ³	STEL :	none	
		• Total dust	OSHA (PEL)	TWA :	15 mg/m ³	CEILING :	none
			OELs	AEL :	10 mg/m ³	SEL :	none
	• Respirable dust	OSHA (PEL)	TWA :	5 mg/m ³	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.)

9. Physical and chemical properties

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

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 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 hydroxide 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
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.

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.

Date of the previous revision:	2008-04-15
--------------------------------	------------

Reason for revision:	Global revision of information.
----------------------	---------------------------------



The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. Any information relating to usage is for guidance purposes only.

Laguna Clay Company www.Lagunaclay.com 1-800-4Laguna info@Lagunaclay.com