



Material Safety Data Sheet

Section 1 - Product Identification and Use

Product Identifier: **ACTIVATED ALUMINA**

Common Name: Activated Alumina

Product Use: Water filtration & treatment

Manufacturer's Name:

Rio Tinto Alcan (RTA)
Bauxite and Alumina
Brookville Works
4000, Development Drive
Brockville, Ontario K6V 5V5
Emergency Phone: [800] 567-7455

Supplier's Name:

AWI (Anthratech Western Inc.)
4450 – 46 Avenue, SE
Calgary, Alberta T2B 3N7

Emergency Phone: [403] 255-7377

* Activated Alumina is manufactured by Rio Tinto Alcan and is distributed by AWI.

Section 2 - Hazardous Ingredients

Name:	<u>CAS#</u>	<u>LD50</u>	<u>LC50</u>	<u>CONC.</u>
Aluminum Oxide	1344-28-1	Unknown	Unknown	93-95%
Moisture	7732-18-5	None	None	3-5%

Activated Alumina does not contain any carcinogens or potential carcinogens - IARC, NTP, OSHA

Section 3 - Physical Data

pH:	N/A	Water Solubility:	Insoluble
Boiling Point:	N/A	Vapour Pressure:	N/A
Melting Point:	2050 °C	Evaporation Rate:	N/A
Specific Gravity (@ 15° C):	0.75	Relative Density (water=1):	3.0-3.7
Appearance and Odour:	Odourless white material in form of small beads or powder		

Section 4 - Fire and Explosion Data

Flash Point:	N/A	Special Fire Fighting Procedures:	N/A
Auto Ignition Temperature:	N/A	N.F.P.A.:	0
Hazardous Combustion Products:	N/A	Lower Flammable Limit:	N/A
Explosive Properties:	N/A	Higher Flammable Limit:	N/A

Section 5 - Reactivity Data

Stability: Material is stable
Hazardous Decomposition: N/A
Hazardous Polymerization: N/A

Section 6 - Toxicological Properties

Respiratory: Inhalations of high concentrations of these nuisance inert particulate can cause a mild irritation of the respiratory tract.
Eye Contact: Large concentrations of this dust can cause serious eye irritation.

* 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.

* Activated Alumina may absorb certain gases and liquids. While alumina itself it principally inert, it may exhibit properties of the absorbed material.

Section 7 - Preventative Measures

Waste Disposal: Non toxic. Dispose of in accordance with all federal, provincial and local regulations.
Handling/Storage: Avoid generating dust during handling.

Section 8 - First Aid Measures

Eye Contact: Flush eyes thoroughly with water, making sure to rinse under eyelids. Flush eyes for 15 minutes. If irritation continues consult your physician. Approved safety glasses or goggles should be worn at all times.

Footwear: Approved safety footwear

Ventilation: Use local or mechanical ventilation

Skin Contact: Wash skin with soap and water. Proper work clothing to be worn to prevent skin contact.

Hygiene: Wash thoroughly with soap and water after handling and before eating or smoking.

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

Respiratory: Use approved N.I.O.S.H., O.H.S.A., 8500 or better

Ingestion: Not applicable

Exposure Limits:

	<u>ACGIH (TLV)</u>		<u>OSHA (PEL)</u>	
	TWA	STEL	TWA	Ceiling
Aluminum Oxide	10mg/m3	None	15mg/m3	None
-respirable dust	None	None	5mg/m3	None

(TLV=Threshold Limit Value; PEL=Permissible Exposure Limit; TWA=Time Weighted Average; STEL=Short Term Exposure Limit; Ceiling=Ceiling Value)

Section 9 - Preparation & Date of MSDS

Prepared by: Craig Morris (Safety Officer)
AWI, 4450 - 46 Ave SE; Calgary, AB T2B 3N7

Telephone Number: [403] 255- 7377

Date Prepared: January 14, 2013

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change, and conditions of handling, use or misuse of this product are beyond our control. Users should satisfy themselves that they are aware of all of the current data relevant to their particular use.