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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Actiguard AAFS-50 Activated Alumina.

**PRODUCT NUMBER:** 000072 (P6318)

**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.

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

**SYNONYMS:** AAFS-50

**APPEARANCE AND ODOUR:** Brown pellets or granules; odourless.

**USES:** Adsorbent.

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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 oxide	1344-28-1	Unknown	Unknown	80 – 100%
Ferric oxide	1309-37-1	Unknown	Unknown	3 – 7%
Ferric hydroxide	1309-33-7	Unknown	Unknown	3 - 7%
Sodium oxide	12401-86-4	Unknown	Unknown	1 - 5%
Sodium sulfate	7757-82-6	Unknown	Unknown	1 - 5%

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## 3. HAZARDS IDENTIFICATION

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If heated to decomposition, may emit toxic gases of sulphur oxides.

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## 4. FIRST AID MEASURES

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

**SKIN CONTACT:** Wash skin thoroughly with soap and water.

**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. Do not scrub, since the abrasion may cause irritation.

**INGESTION:** Not applicable

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## 5. FIRE-FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Non combustible.  
**HAZARDOUS COMBUSTION PRODUCTS:** If heated to decomposition, may emit toxic gases of sulphur oxides.

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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
Aluminum oxide (total dust)	10 mg/m <sup>3</sup>	None	15 mg/m <sup>3</sup>	None
-respirable dust	None	None	5 mg/m <sup>3</sup>	None
Ferric oxide (fume, dust)	5 mg/m <sup>3</sup>	None	10 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 determined	<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>	Not determined	<b>OXIDIZING PROPERTIES:</b>	Not applicable
<b>WATER SOLUBILITY:</b>	Slightly soluble.	<b>PARTITION COEFFICIENT (N-OCTANOL/WATER):</b>	Not applicable
<b>ODOUR THRESHOLD:</b>	Not applicable		

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## 10. STABILITY AND REACTIVITY

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**STABLE (YES/NO):** Yes

**CONDITIONS AND MATERIAL TO AVOID:** Keep away from acids and bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** If heated to decomposition, may emit toxic gases of sulphur oxides.

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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>	Yes	<b>SKIN CONTACT:</b>	Yes	<b>SKIN ABSORPTION:</b>	No

**ACUTE EFFECTS:****INHALATION:** May cause irritation of the upper respiratory tract.**SKIN CONTACT:** May cause irritation.**EYE CONTACT:** May cause irritation.**INGESTION:** Not applicable**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)]

**SUPPLEMENTARY INFORMATION:**

Activated alumina may adsorb certain gases and liquids. While alumina itself is principally inert, it may exhibit properties of the adsorbed material.

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## 12. ECOLOGICAL INFORMATION

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Effect of low concentrations on aquatic life is unknown.

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## 13. DISPOSAL CONSIDERATIONS

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Recycle if possible. 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 Goods 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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**WHMIS CLASSIFICATION (CANADA):** Not controlled**EUROPEAN UNION CLASSIFICATION:** Not classified**WARNING SYMBOL:** None**WARNING WORD:** None**RISK PHRASES:** None**SAFETY PHRASES:** None

**USA REGULATIONS :**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.

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**16. OTHER INFORMATION**

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**Suppliers or plants :**

Rio Tinto Alcan (RTA)  
Bauxite and Alumina  
Brocville Works  
4000, Development Drive  
Brockville, Ontario, Canada  
K6V 5V5

**Emergency phone : 1-800-567-7455\***  
Phone : 1-613-342-7462  
Fax : 1-613-342-6943

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

**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:** 2006-11-20

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