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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:** Filter Innovations Inc. Tel: 416-490-7848

**Emergency phone :** 1-800-919-1718

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**\*\*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

### 5. FIRE-FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

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

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
Sodium oxide (Na <sub>2</sub> O)	None	None	None	None
Sodium sulfate	None	None	None	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)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<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</b>	Not applicable
<b>ODOUR THRESHOLD:</b>	Not applicable	<b>(N-OCTANOL/WATER):</b>	

### 10. STABILITY AND REACTIVITY

**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:**

<b>INHALATION:</b>	May cause irritation of the upper respiratory tract.
<b>SKIN CONTACT:</b>	May cause irritation.
<b>EYE CONTACT:</b>	May cause irritation.
<b>INGESTION:</b>	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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<b>WHMIS CLASSIFICATION (CANADA):</b>	Not controlled
<b>EUROPEAN UNION CLASSIFICATION:</b>	Not classified
<b>WARNING SYMBOL:</b>	None
<b>WARNING WORD:</b>	None
<b>RISK PHRASES:</b>	None
<b>SAFETY PHRASES:</b>	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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Distributor/Supplier:

Filter Innovations Inc.

**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.

***\*\*\*The information contained herein is accurate to the best of our knowledge. Filter Innovations Inc. makes no warranty with respect hereto said information and disclaims all liability from reliance there in \*\*\****