

## ACTIVATED ALUMINA DESICCANT

XEBEC PART # P400016 / M001-210 / 213 / 214

## 1. IDENTIFICATION OF THE SUBSTANCE/MIX FROM THE MANUFACTURER

## 1.1. Product Identifier

<b>Product Name</b>	Activated Alumina Desiccant
<b>Common Chemical Name</b>	Activated Alumina
<b>Chemical Formula</b>	Al <sub>2</sub> O <sub>3</sub>
<b>CAS # / EC #</b>	1344-28-1

## 1.2. Details of the supplier of the substance or mixture:

<b>Supplier</b>	Xebec Adsorption Inc
	730, Boulevard Industriel
	Blainville, Québec, Canada J7C 3V4
	Tel +1 450 979 8700
	Email : <a href="mailto:sales@xebecinc.com">sales@xebecinc.com</a> <a href="http://www.xebecinc.com">www.xebecinc.com</a>

## 1.3. Emergency Phone Number

<b>(86) 151 21155158</b>	Only office hours are available
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2. HAZARDS IDENTIFICATION

**Emergency overview:** Appearance: white solid. **Caution!** May cause eye and skin irritation. Hygroscopic (absorbs moisture from the air). May cause respiratory and digestive tract irritation. Contains trace amounts of quartz which may lead to fibroid lung disease, silicosis or cancer.

**Target Organs:** No data found.

**Potential Health Effects:**

<b>Eye:</b>	May cause eye irritation.
<b>Skin:</b>	May cause skin irritation.
<b>Ingestion:</b>	May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
<b>Inhalation:</b>	May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
<b>Chronic:</b>	Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS #</b>	<b>% (w/w)</b>	<b>Symbol</b>
Activated Alumina	1344-28-1	99.5	---

**4. FIRST AID MEASURES**

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
<b>Ingestion:</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.
<b>Extinguishing Media:</b>	Substance is non-combustible; use agent most appropriate to extinguish surrounding fire.
<b>Flash Point:</b>	Not applicable.
<b>Autoignition Temperature:</b>	Not applicable.
<b>Explosion Limits:</b>	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>NFPA Rating:</b> (estimated)	Health: 1; Flammability: 0; Instability: 0

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. General Information:

**Use proper personal protective equipment as indicated in Section 8.**

### 6.2. Spills/Leaks:

**Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.**

## 7. HANDLING AND STORAGE

### 7.1. Handling:

**Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.**

## 7.2. Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

## 8.2. Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	Chemical Name
Activated Alumina	none listed	none listed	none listed	Activated Alumina

## 8.3. OSHA Vacated PELs:

Activated Alumina: No OSHA Vacated PELs are listed for this chemical.

## 8.4. Personal Protective Equipment

<b>Eyes:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Solid
<b>Appearance</b>	White
<b>Odour</b>	Odourless
<b>pH</b>	Not available

<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Viscosity</b>	Not available
<b>Boiling Point</b>	Not available
<b>Freezing / Melting Point</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Solubility</b>	Not available
<b>Specific Gravity/Density</b>	Not available
<b>Molecular Formula</b>	Al <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Incompatible materials, dust generation, excess heat, exposure to moist air or water.
<b>Incompatibilities with Other Materials:</b>	Moisture.
<b>Hazardous Decomposition Products:</b>	Irritating and toxic fumes and gases.
<b>Hazardous Polymerization:</b>	Has not been reported.

## 11. TOXICOLOGICAL INFORMATION

### RTECS#:

<b>CAS#</b>	0-00-1 unlisted.
<b>LD50/LC50:</b>	Not available.
<b>Carcinogenicity:</b>	CAS# 0-00-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

<b>Epidemiology:</b>	No information available.
<b>Teratogenicity:</b>	No information available.
<b>Reproductive Effects:</b>	No information available.
<b>Neurotoxicity:</b>	No information available.
<b>Mutagenicity:</b>	No information available.
<b>Other Studies:</b>	No data available.

## 12. ECOLOGICAL INFORMATION

No information available
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## 13. DISPOSAL CONSIDERATIONS

<b>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</b>	
<b>RCRA P-Series:</b>	None listed.
<b>RCRA U-Series:</b>	None listed.

## 14. TRANSPORT INFORMATION

<b>Land - Road/Railway :</b>	Not restricted.
<b>Inland waterways :</b>	Not restricted.
<b>Sea :</b>	Suggestion according to IMO IMDG Code, the substance is not subject to IMO IMDG Code.
<b>Air :</b>	Suggestion according to IATA DGR, the substance is not subject to IATA DGR.

## 15. REGULATORY INFORMATION

### **US FEDERAL**

#### **TSCA**

CAS# 1344-28-1 is not listed on the TSCA inventory. It is for research and development use only.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### **Section 12b**

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

#### **SARA**

#### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

#### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

#### **Section 313**

No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

#### **STATE**

CAS# 0-00-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations European Labeling in Accordance with EC Directives

**Hazard Symbols:** Not available.

**Risk Phrases:** Not available.

### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water.

### WGK (Water Danger/Protection)

CAS# 0-00-1: No information available.

### Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

### Canada - WHMIS

This product has a WHMIS classification of D2B.

### Canadian Ingredient Disclosure List

### Exposure Limits

## 16. OTHER INFORMATION

**Creation Date:** 12/02/2003

**Revision #5 // Date:** 08/02/2017

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