



Common Name: Alumina Oxide, Alkaline	Phone No. (770) 817-0123	Date 8-03-2004	Revised 02-11-2008
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Section I. Material Description

Manufacturer: Dynamic Adsorbents, Inc. P.O. Box 80402, Atlanta, GA 30366-0402

Chemical Name & Formula: Aluminum oxide, Al₂O₃

Other Designation: See Section II, Product Designation

Section II: Ingredients

	<u>% by weight</u>	<u>CAS NO.</u>	<u>Occupational Exposure Limits</u>	
			<u>ACGIH TLVS</u>	
Al ₂ O ₃	79-96	1344-28-1	10mg/m ³ (TWA)	
*Na ₂ O	0.01- 0.2	1313-59-3	Total fraction	10mg/m ³ (TWA)
*SiO ₂ (amorphous)	0.01- 0.2	14808-60-7	Respirable fraction	5mg/m ³
*Fe ₂ O ₃	0.01 - 0.03	1309-37-1		
Loss on Ignition (water)	3-20			

* Expressed as oxide equivalent

Product designation:

01001, 01005, 01006, 02065, 02078, 04100, 04102, 04104, 04341, 04577, 04694, 05005, 05006, 05620-sp, AL2100 normal, AL2100-SP, AL2100, 995005, 995006, 992006, 991005, 991007, 06031

Section III. Physical Data

Physical form:	Crystalline granules, pellets, or powder
Boiling Temperature:	N/A
Melting Temperature:	> 3000 °F
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Water Solubility:	Insoluble
Color:	white to off-white
Odor:	None
Specific Gravity:	3.0 - 3.3
Density:	0.6 - 0.93 g/cc
pH:	~ 10 (10% slurry in water)

Section IV. Fire and Explosion Data

Flashpoint:	N/A
Auto-Ignition	N/A
Flammability Limits in air:	N/A

Product is nonflammable.

Not an explosion hazard.

Section V. Reactivity Data

With water:	Generates heat
With air:	None
With heat	None
With strong oxidizers:	Generates heat

Section VI. Health Hazard Information

(See Section II for exposure limits)

May cause irritation to the skin, eyes, and upper respiratory tract.

All materials present a risk by inhalation and should be treated as a nuisance dust, as specified by the American Conference of Governmental Industrial Hygienists (ACGIH).

First Aid

- Inhalation:** Special precautions should be exercised when handling material to reduce or eliminate the possibility of exposure by inhalation of airborne particles. If exposure by inhalation occurs, remove to fresh air and seek medical attention immediately.
- Skin:** If contact with skin occurs, wash skin with a mild soap and warm water.
- Eye:** Mild to moderate irritation may occur due to contact with eyes. If contact occurs, irrigate affected eye(s) with copious amounts of sterile water to avoid further irritation. If irritation persists, seek medical attention immediately.

Section VII. Spill, Leak, and Disposal Procedures

Vacuum or sweep up spills; avoid dusting. Collect in containers or bags. Consult federal, state, and local regulations to determine proper disposal procedures.

RCRA Hazardous Waste No. N/A material is nonhazardous per 40 CFR 261.

Section VIII. Special Protection Information

Use adequate ventilation to meet the exposure limits as listed in Section II. Where the exposure limit is or may be exceeded, use NIOSH approved respiratory protection. Select the appropriate respiratory device (dust respirator, dust eliminating masks, etc.) based on actual or potential airborne contaminants and their concentrations present. Use safety glasses with sideshields and/or chemical goggles.

Section IX. Special Precautions & Comments

Chemical substance components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substances Control Act (Title 40 CFR Part 710).

This product is not classified by the EPA, the UN, or DOT as a hazardous material.

Section X. References

American Industrial Hygiene Association (AIHA) Hygienic Guide Series (revised June 1978)

Information herein is given in good faith as authoritative and valid; however, no warranty, expressed or implied, can be made.

