



## Does the Dynamic Adsorbents (DAI) products have a COA or MSDS - INTERNAL ONLY

**CONFIDENTIAL & FOR INTERNAL USE ONLY THIS IS OUTDATED INFORMATION WE NO LONGER SELL THIS PRODUCT LINE.**

**Department:** Packaging, Shipping, Technical, Inside Sales, Outside Sales and Purchasing

With every **Dynamic Adsorbent** item a **COA** (Certificate of Analysis) and an **MSDS** (Material Safety Data Sheet) is provided to the customer. These are also provided to us by the factory. The packaging department makes copies for our files and **applies a reorder label** on them to inform the customer of MicroSolv's phone #, website and re-order part #. If these documents are needed by technical support a request shall be made to the Purchasing department.

Please see below for an example of the documents described:



### Certificate of Analysis

Product Name:	Alumina N
Catalog Number:	02061
Lot Number:	BD1808
Formula:	$Al_2O_3$
Molecular Weight:	101.96
Main Component:	Oxide of Aluminum
Melting Point:	>2046°C
Color:	White
Physical Appearance:	Free Flowing Powder
Odor:	None (when dry) Mineral Like (when wet)
pH Value:	7.2 (5% aqueous slurry)
Activity	According to Brockman
Exchange w/Methylene Blue	None
Exchange w/Orange GG	None
Bulk Density:	0.8 - 0.92 g/cc
Mean Particle Distribution:	32 - 63µm
Surface Area (BET)	200 m <sup>2</sup> /g
Water Soluble Matter:	<0.1%
Purity:	99.9%

Example of MSDS or Material Safety Data Sheet:



<b>Common Name:</b> Alumina Oxide, Neutral	<b>Phone No.</b> (770) 817-0123	<b>Date</b> 08-03-2004	<b>Revised</b> 07-01-2012
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## Section I. Material Description

Manufacturer: Dynamic adsorbents, Inc. 3280 Peachtree Corners Circle, Suite E. Norcross GA 30092

Chemical Name & Formula: Aluminum oxide, Al<sub>2</sub>O<sub>3</sub>

Other Designation: See Section II, Product Designation

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

Loss on Ignition (water) 3-20 (Depending on Brockmann activity requested)

\* Expressed as oxide equivalent

Product designation:

2144, 2149, 2152, 02061, 02062, 02065, 02135, 02136, 02103, 02120, 02142, 02156, 02300, 04344, 04413, 04514, 04589, 04694, 62011, 62003, 72001, 72011, 82101, 82111, 82103, 82113, 82104, 82114, 90101, 90103, 90111, 90113, 90114, 90116, 90311, 001-02061, 006-02061, 995500, 995100, 995800, 995600

## 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

## 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

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**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.

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**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.

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**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.

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**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.

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**Section X. References**

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

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

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