

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CONFIDENTIAL & FOR INTERNAL USE ONLY THIS IS OUTDATED INFORMATION WE NO LONGER SELL THIS PRODUCT LINE.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



Dynamic Adsorbents Inc 3280 Peachtree Corners Circle

Norcross, GA 30092 Phone: (770) 817-0123 (770) 455-4380 www.dynamicadsorbents.com

Certificate of Analysis

Product Name: Alumina N Catalog Number: 02061 Lot Number: BD1808 Formula: A1,0, Molecular Weight: 101.96

Main Component: Oxide of Aluminum

Melting Point: >2046°C White

Physical Appearance: Free Flowing Powder Odor: None (when dry)

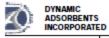
Mineral Like (when wet)

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) $200 \text{ m}^2/\text{g}$ Water Soluble Matter: < 0.1% Purity: 99 9%

Example of MSDS or Material Safety Data Sheet:



Material Safety Data Sheet

| promise and the second | | | | | | |
|------------------------|--|------------|------------|--|--|--|
| Common Name: | | Date | Revised | | | |
| Alumina Oxide, Neutral | | 08-03-2004 | 07-01-2012 | | | |

Section I. Material Description

Manufacturer: Dynamic adsorbents, Inc. 3280 Peachtree Corners Circle, Suite E. Norcross GA 30092 Chemical Name & Formula: Aluminum oxide, Al₂O₃

Other Designation: See Section II, Product Designation

| Section II. Ingredients | | | Occupational Exposure Limits | |
|--|-------------|------------|------------------------------|----------------|
| | % by weight | CAS NO. | ACGIH TLVS | |
| Al ₂ O ₃ *Na ₂ O | 79-96 | 1344-28-1 | 10mg/m3(TWA) | |
| *Na,O | 0.01-0.2 | 1313-59-3 | Total fraction | 10mg/m 3 (TWA) |
| *SiO,(amorphous) | 0.01-0.2 | 14808-60-7 | Respirable fraction | 5mg/m ³ |
| *Fo,Ô, | 0.01 - 0.03 | 1309-37-1 | - | _ |

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

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 > 3000 °F Melting Temperature: N/A Vapor Pressure: Evaporation Rate: N/A Water Solubility: Insoluble white to off-white Color: Odor:

None 3.0 - 3.3 Specific Gravity: 0.6 - 0.93 g/cc Density:

Section IV. Fire and Explosion Data Flashpoint: N/A Auto-Ignition Flammability Limits in air: N/A

Product is nonflammable. Not an explosion hazard.

Section V. Reactivity Data

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

^{*} Expressed as oxide equivalent

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 misance dust, as specified by the American Conference of Governmental Industrial Hygienists (ACGIH).

First Aid

Inhalation:

Skin:

Eve:

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. If contact with skin occurs, wash skin with a mild soap and warm water. 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.

SectionVII. 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 resiratory protection. Select the appropriate respiratory device (dust respirator, dust eliminateing 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 Asociation (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.

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