



Micromeritics Instrument Corp. and Micromeritics Analytical Services
 www.micromeritics.com www.particletesting.com
 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

Cover Sheet



INSTRUMENT CORPORATION
 ONE MICROMERITICS DR.
 NORCROSS, GA 30093-1877 U.S.A.

MSDS Dispersent, DAXAD®23, 30g

| | | | | | | | |
|-----|----------------------|----------|----------|-----|----------|----------|---------------|
| | | | | | | DWN BY | J.Pittman |
| | | | | | | ENGR | J. Mocny |
| | | | | | | ENGR SIG | P. Hendrix |
| B | Revision | JAP | 6/25/04 | | 040265 | HR SIG | J. Mocny |
| A | Revision | MD | 03/27/03 | JM | 030187 | QA SIG | A. Dovin |
| - | Formal Release | C. Bills | 06/18/01 | JP | 010304 | ES SIG | K. Massengill |
| REV | REVISION DESCRIPTION | BY | DATE | CHK | REL. NO. | | |

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| A | 004/16838/00MSDS | X of 4 |

Micromeritics Material Safety Data Sheet

Title : Dispersant DAXAD®23, 30g
Date of Preparation : 06/25/04

MSDS No. : 004/16838/00MSDS
Revision : B

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Sodium Lignosulfonate Powder

Chemical Formula: n/a

CAS Number: 8061-51-6

Other Designations: n/a

General Use:

| | | | |
|------------------|--|-----------------|---|
| Supplier: | Micromeritics Instrument Corp. 1 Micromeritics Dr. Norcross, GA 30093-1877 USA | Contact: | Human Resources Phone: (770) 662-3620 Fax: (770) 662-3696 |
|------------------|--|-----------------|---|

Manufacturer: Hampshire (Div. of Dow Chemical) 45 Hayden Avenue, Suite 2500, Lexington, Mass. 02421-7994
Emergency: Hampshire Emergency Center, Nashua, NH USA (603) 888-2320, CHEMTREC® (800) 424-9300 (US, Canada, Puerto Rico, Virgin Islands) CHEMTREC® (703) 527-3887 (for all other countries; collect calls accepted.)

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt |
|-----------------------|------------|------|
| Sodium lignosulfonate | 8061-51-6 | 94% |
| Water | | 6% |

Trace Impurities:

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH |
|-----------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | IDLH |
| Nuisance Particulates | 10 mg/m ³ | none estab. | none estab. | none estab. | none estab. | none estab. | none estab. |
| | | | | | | | |

Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

| |
|---------|
| HMIS |
| H 1 |
| F 0 |
| R 0 |
| PPE† |
| †Sec. 8 |

Potential Health Effects

Primary Entry Routes: Eye and skin contact. Inhalation of mist.

Acute Effects: No acute adverse effects known.

Inhalation: Inhalation of nuisance dust may cause coughing.

Eye: Test data indicates that product is not an eye irritant.

Skin: Test data indicates that product is not a skin irritant.

Ingestion: Eating or swallowing product may cause vomiting.

Carcinogenicity: None of the components are listed by NTP, IARC, OSHA or ACGIH as suspect or known carcinogens, and there are no studies implicating components as possible carcinogens.

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Section 4 - First Aid Measures

Inhalation: Any inhalation hazard is related only to general nuisance dusting. If a person inhales large amounts of dust, move person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Call a physician immediately.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes repeatedly holding eyelids open. Call a physician immediately.

Skin Contact: Flush with clean water.

Ingestion: Give the patient large amounts of water or milk to drink for dilution effect. Not necessary to induce vomiting. Contact a physician for advice.

Section 5 - Fire-Fighting Measures

Flash Point: N/A.....

Flash Point Method: N/A.....

Autoignition Temperature: N/A

Flammability Classification:

LEL: 0.2 oz./F13 UEL: Unknown

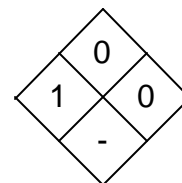
Extinguishing Media: Water

Unusual Fire or Explosion Hazards: Burning of solids may provide conditions for dust explosion.

Hazardous Combustion Products: N/A

Fire-Fighting Instructions: None

NFPA



Section 6 - Accidental Release Measures

Spill /Leak Procedures:

STEPS TO BE TAKEN TO HANDLE SPILLS OR RELEASES: Prevent liquid from entering drinking water supplies or streams. Collect and package for disposal according to local, state, and federal regulations.

Section 7 - Handling and Storage

Handling Precautions: None

Storage Requirements: None

Regulatory Requirements: None

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Adequate for comfort. Refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Administrative Controls:

Respiratory Protection: If use generates a dust, use a NIOSH approved dust mask. A full respiratory protection program is recommended. Refer to NIOSH/OSHA "Occupational Health Guidelines for Chemical Hazards" for additional details.

Protective Clothing/Equipment: Use protective gloves during prolonged exposure.

Safety Stations: N/A

Eye Protection: Safety glasses.

Contaminated Equipment: Clothing in contact with skin should be changed daily.

Section 9 - Physical and Chemical Properties

| | |
|--|--------------------------------------|
| Physical State: | Water Solubility: 100% |
| Appearance and Odor: Brown Powder | Other Solubilities: N/A |
| Odor Threshold: Slight odor | Boiling Point: N/A |
| Vapor Pressure: N/A | Freezing/Melting Point: N/A |
| Vapor Density (Air=1): N/A | Viscosity: N/A |
| Formula Weight: N/A | Refractive Index: N/A |
| Bulk Density: 30-40 lb./cu. Ft | Surface Tension: N/A |
| Specific Gravity (H₂O=1, at 4 °C): N/A | % Volatile: About 6% as water |
| pH of 1% Solution: About 8 | Evaporation Rate: N/A |

Section 10 - Stability and Reactivity

Stability: N/A
Polymerization: Hazardous polymerization will not occur.
Chemical Incompatibilities: Avoid contact with strong oxidizing agents.
Conditions to Avoid Uncontrolled Polymerization: N/A
Hazardous Decomposition Products: Burning may release sulfur dioxide, carbon monoxide or carbon dioxide.

Section 11- Toxicological Information

N/A

Section 12 - Ecological Information

Ecotoxicity: N/A
Environmental Fate: N/A
Environmental Degradation: N/A
Soil Absorption/Mobility: N/A

Section 13 - Disposal Considerations

WASTE DISPOSAL PROCEDURES: This product as sold is not a federal hazardous waste according to EPA regulations 40 CFR 261. Dispose of waste product in accordance with state and local regulations.
Disposal Regulatory Requirements: N/A
Container Cleaning and Disposal: N/A

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

N/A

Section 15 - Regulatory Information

Regulations:

International Inventory Listings:
Components in this product are listed on the -
U.S. TSCA Inventory
Canadian Domestic Substances List
European EINECS (2325059)
Australian AICS

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U.S. Regulatory Information:

Sara Classification(s): Not classified as hazardous.

Ingredients present in product that may require reporting under Section 313 of SARA

Title III as defined in 40 CFR 372: None

Clean Air Act, Ozone Depleting Substances: This product does not contain nor was it manufactured with Class I or Class II ozone depleting substances as defined by the Clean Air Act Amendments of 1990.

U.S. Hazard Communication Standard Classification: Not classified as hazardous.

Formaldehyde Standard: Does not contain formaldehyde.

Pennsylvania Right-to-Know: According to definitions and limitations of the regulation there are no special hazardous substances or an environmental hazard present in the product.

HMIS Ratings: Health - 0, Flammability - 1, Reactivity - 0, Personal Protective Equipment - B

Section 16 - Other Information

Prepared By: C. Bills

Revision Notes:

Additional Hazard Rating Systems:

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