

MATERIAL SAFETY DATA SHEET

Rosen's, Inc. - P.O. Box 933 - Fairmont, MN 56031

Array

Date Prepared: October 30, 2005

General Information

Names & Synonyms: Dry Blend Adjuvant

Family: Adjuvant/Inorganic Salt Blend

Formula: Proprietary blend

Hazardous Classification: Not Hazardous

Motor Freight Class: 60

Item Number: N/A

UN/NA Number: N/A

Bill of Lading Description: Adhesive, Adjuvants, Spreaders or Stickers

Physical Data

pH (1% Solution): 6.2

Boiling Range: NA

% Volatile by Volume: 4-7

Specific Gravity: N/A

Solubility in Water: Disperses easily

Evaporation Rate (Water = 1): N/A

Appearance & Odor: White crystalline powder, bland odor.

Bulk Density: 56 - 58 lbs./cu.ft.

Hazardous Ingredients

Principal Hazardous Materials	CAS#	Percent TLV (Units)	
Polymeric viscosity modifier*		Less than 7%	15 mg/m ³
Ammonium Sulfate	7783-20-2	Less than 96%	Not established

*Hazardous within the meaning of 29CFR 1910.1200

24 Hour Emergency Phone Number
CHEMTREC: (800) 424-9300

Health Hazard Data

ACGIH Threshold Limit Value: Not established for mixture

Carcinogen-NTP Program: NO

Carcinogen-IARC Program: NO

Primary Routes of Entry:

Can cause severe eye irritation upon direct contact. Prolonged skin contact may cause drying and mild irritation. Inhalation of high mist concentrations may cause headaches and dizziness. Harmful if swallowed. Can cause considerable gastric upset, ulceration or hemorrhage of the GI tract, and diarrhea. Systemic ammonia poisoning is possible if sufficient absorption occurs.

Emergency First Aid:

INHALATION - Dust can irritate the nose, throat and respiratory tract. Remove to fresh air, treat symptomatically. Give oxygen or artificial respiration if needed.

INGESTION - If swallowed, induce vomiting immediately as directed by medical personnel. Never Give Anything By Mouth To An Unconscious Person.

EYE CONTACT - Moderately irritating. Flush with water for 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT - Slightly irritating. Remove contaminated clothing and wash contact areas with soap and water for 15 minutes. If irritation persists, seek medical attention. Launder clothing before re-use.

Sara Title III, Section 313

This product contains the following toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR372

CAS#	Chemical Name	Percent by Weight
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Fire & Explosion Hazard Data

Flash Point (TCC): Greater than 200 F

Flammability Limits: Not Established

Extinguishing Media: Carbon dioxide or dry chemicals for small fires; alcohol foam, universal foam or water spray for large fires.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective gear when entering confined areas.

Unusual Fire and Explosion Hazards: To reduce potential explosion hazard, avoid dispersion of dust in air.

Reactivity Data

Stability: Stable

Conditions to Avoid: Fire and excessive heat.

Hazardous Polymerization: Will not occur.

Materials to Avoid: Strong oxidizing agents, acids, bases, chlorates, nitrates

Hazardous Decomposition Products: Thermal decomposition products may include: ammonia, sulfur trioxide and oxides of carbon.

Environmental Protection

Spill Response: For wet material, dike spill and absorb with inert material and collect for disposal. Caution: Wet material is slippery. For dry powder, sweep or scoop-up and collect for disposal. Avoid creating dust clouds and breathing dust. Spills or releases to the environment may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Waste Disposal Method: Follow federal, state and local regulations regarding health and pollution. Landfill or dissolve in a suitable solvent and incinerate in accordance with federal, state and local regulations. Material is not a hazardous waste under current RCRA regulations.

Special Protection Information

Eye Protection - Tight fitting goggles are recommended to reduce exposure to eyes if high dust concentration exists.

Skin Protection - For operations where contact can occur, wear impervious gloves.

Respiratory Protection - Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to dust is likely unless levels are below applicable limits.

Ventilation Recommended - Ventilation adequate to keep hazardous ingredients below their TLV.

Other Protection - For operations where contact can occur, wear clothing to limit skin contact. A safety shower and eye wash facility should be available.

Special Precautions

Handling & Storage Precautions: Use only with adequate ventilation. Avoid contact with skin or eyes. Avoid prolonged or repeated breathing of vapor, dust, or spray mists. Avoid contact with eyes, skin and clothing. Do not take internally. In case of eye contact, flush with large amounts of water and get medical attention. Always wear protective gear.

Ground containers when transferring from one to another. Where dusty conditions exist, an explosive atmosphere could develop as with any organic material.

Other Precautions: Keep container tightly closed and upright when not in use. Follow good industrial practices with regard to housekeeping and personal hygiene. Keep out of reach of children.

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.