



7255 East 46th St., Tulsa, OK 74175 ph 704-947-1967 sales@ecompressedair.com
<http://www.ecompressedair.com>

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

DATE ISSUED: August 2006
PRODUCT NAME: ECAMS4A116, ECAMS4A18, MS4A116, MS4A18
CHEMICAL NAME: Sodium Aluminosilicate
SYNONYM: Molecular Sieves

COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO.	WT%	OSHA PEL-TWA
Silicon oxide	7631-86-9	<50	15mg/m ³ Total dust, 5 mg/m ³ Respirable dust
Sodium oxide	1313-59-3	<30	None established
Aluminum oxide	1344-28-1	<30	15mg/m ³ Total dust, 5 mg/m ³ Respirable dust
Magnesium oxide	1309-48-4	<5	15mg/m ³ Fume, Total particulate

OSHA - Occupational Safety & Health Administration
TWA - Time Weighted Average
PEL - Permissible Exposure Limit

PHYSICAL PROPERTIES

The following data are approximate or typical values and should not be used for precise design purposes.

Appearance: Tan pellets or beads, white powder, or cake	
Odor: None	Specific Gravity: 1.1 piece, 2.1 crystal
pH: Aqueous slurry 8 to 11	Apparent Bulk Density: N/A
% Volatile: N/A	Solubility in Water: N/A
Pour Point: N/A	Boiling Point: N/A
Viscosity: N/A	Freezing Point: N/A
Vapor Pressure: N/A	Vapor Density: N/A



7255 East 46th St., Tulsa, OK 74175 ph 704-947-1967 sales@ecompressedair.com
<http://www.ecompressedair.com>

FIRE AND EXPLOSION DATA

Stability: Stable

Conditions to Avoid: The addition of moisture (water) without flooding can cause rise in temperature from heat of adsorption, and contact with skin might result in burns.

Hazardous Decomposition Products: Hydrocarbons and other materials that contact the product during normal use can be retained on the product. It is reasonable to expect that decomposition products will come from these retained materials of use. The product itself does not readily decompose unless subject to extreme temperature or chemical conditions. If such decomposition did occur, the products would include the mix of oxides mentioned in the "Components and Hazard Information" section.

Hazardous Polymerization: Will not occur

Incompatible Materials: Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc.

HEALTH HAZARD INFORMATION

Primary Routes of Exposure: Contact with skin and eyes. Exposure may also occur via inhalation or ingestion if product dust is generated during handling and/or processing.

Skin Contact: The product dust may dry skin. This material becomes hot when it first comes into contact with moisture. The hot material could cause thermal burns.

Eye Contact: Dust and/or product may cause eye discomfort and/or irritation seen as tearing and reddening.

Ingestion: The product gets hot as it absorbs water. Burns to moist body tissues can result if contact is prolonged.

Inhalation: Inhalation of product is odorless tan pellets, granules, beads, white powder, or cake. In the fresh unused state, this product is not flammable. When first wetted, the product can heat up to the boiling point of water. Flooding will reduce the temperature.



7255 East 46th St., Tulsa, OK 74175 ph 704-947-1967 sales@ecompressedair.com
<http://www.ecompressedair.com>

EMERGENCY FIRST AID

Inhalation: Remove affected person to fresh air. If respiratory problems develop, obtain medical attention.

Ingestion: Drink at least 2 glasses of water. Obtain medical attention.

Eye Contact: Flush with water for at least 15 minutes.

Skin Contact: Wash affected area with soap and water.

Notes to Physician: This product is a desiccant and generates heat as it absorbs water. The used product can contain material of a hazardous nature. Identify that material and treat symptomatically.

PROTECTION AND PRECAUTIONS

Handling and Storage: Store in tightly closed, properly labeled containers.

Disposal Information: Discard any product (including any retained materials of use), disposable container or liner in an environmentally acceptable manner, in full compliance with all applicable government regulations.

Respiratory Protection: Where natural ventilation is inadequate, use mechanical ventilation, other engineering controls, or a toxic dust respirator to prevent inhalation of product dust.

Skin Protection: Gloves and work uniform as necessary to prevent repeated or prolonged skin contact.

Eye Protection: Safety glasses or goggles as necessary to prevent eye contact.

Accidental Release Measures: Large Spill--Isolate the affected areas. Confine entry into the affected area to those persons properly protected. Special attention should be given to eye and respiratory protection because recovery of dry material is expected to generate dust. Sweep, shovel, or vacuum spilled material into appropriate containers.

Small Spill--Sweep or vacuum spilled material into appropriate container. Product should be disposed of in accordance with all applicable government regulations.



7255 East 46th St., Tulsa, OK 74175 ph 704-947-1967 sales@ecompressedair.com
<http://www.ecompressedair.com>

TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: The following is for a product with a similar composition. The LD50 is greater than 5g/kg.

Acute Dermal Toxicity: A dermal LD50 is not available for this product.

Acute Inhalation Toxicity: An inhalation LD50 is not available for this product.

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE, ARE BEYOND OUR CONTROL, SELLER MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.