

T. A. DAVIES CO.
19500 S Alameda St, Rancho Dominguez CA 90221
Emergency Phone: 310 764-0820

MATERIAL SAFETY DATA SHEET

- MS4A -

I PRODUCT IDENTIFICATION

PRODUCT NAME: Tadco Formula MS4A
CHEMICAL TYPE: Molecular Sieve Type 4A

II INGREDIENTS

COMPONENTS:	%	TLV (ACGIH)
Silicon Oxide (CAS 7631-86-9)	<50	10 mg/m ³ Inhalable 3 mg/m ³ Respirable
Sodium oxide (CAS 1313-59-3)	<30	Not established
Aluminum oxide (non-fibrous) (1344-28-1)	<30	10 mg/m ³
Magnesium oxide (CAS 1309-48-4)	<5	10 mg/m ³ Fume

III PHYSICAL DATA

APPEARANCE & ODOR: Odorless white powder
BOILING POINT: Not applicable
SPECIFIC GRAVITY: 1.1 piece, 2.1 crystal
VAPOR PRESSURE: Not applicable
SOLUBILITY IN WATER: Not available

IV FIRE AND EXPLOSION DATA

FLASH POINT: Not combustible
EXTINGUISHING MEDIA: Unused material will not burn. Use media appropriate for surrounding fire.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Used material may contain materials of a hazardous nature. The user of this product must identify the hazards of the retained material and inform the fire fighters of these hazards.

V REACTIVITY DATA

STABILITY: Stable.
INCOMPATIBILITY (MATERIALS TO AVOID): The addition of moisture (water) without flooding can cause rise in temperature from heat of adsorption. Contact with skin might result in burns. Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc.

HAZARDOUS POLYMERIZATION: Will not occur.
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 does occur, the products will include oxides shown in Section II.

VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Skin; Eyes; Inhalation
INHALATION: Inhalation of product and/or dust may cause irritation of the respiratory tract.
SKIN CONTACT: The product dust may dry the skin. The 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 adsorbs water. Burns to moist body tissues can result if contact is prolonged.
CARCINOGENICITY: None of the ingredients are listed by NTP, IARC, or regulated by OSHA as a carcinogen.

FIRST AID PROCEDURES:

Skin: Wash material off skin with plenty of soap and water.
Eyes: Flush with copious amounts of water for at least 15 minutes holding eyelids open.
Ingestion: Drink at least 2 glasses of water, consult physician.
Inhalation: Move to area free of risk to further exposure. If respiratory problems develop get medical attention.

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Major Spill: Isolate the affected area. Provide eye, skin and respiratory because recovery of dry product is expected to

generate dust. Sweep, shovel or vacuum spilled product into appropriate containers.
Minor Spill: Sweep, shovel or vacuum spilled product into appropriate containers.

WASTE DISPOSAL METHOD: Waste must be disposed of according to federal, state and local environmental control regulations.

VIII SPECIAL PROTECTION

EYE PROTECTION: Safety glasses or goggles to prevent eye contact

SKIN PROTECTION: Gloves and work uniform as necessary to prevent repeated or prolonged skin contact.

RESPIRATORY PROTECTION: If respiratory protection is needed, use MSHA/NIOSH approved dust respirator.
VENTILATION: Local exhaust should be sufficient to control airborne levels.

OTHER PROTECTIVE EQUIPMENT: None.

IX SPECIAL PRECAUTIONS

Store in tightly sealed containers to protect from atmospheric moisture. Educate and train employees in safe use of product.

X REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are on the TSCA 8(b) Inventory.

CERCLA and SARA Regulations (40 CFR 355,370, and 372):

313 Supplier Notification. This product contains the following toxic chemicals subject to reporting requirements of 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372: None

State Regulations:

California Proposition 65: No warnings are necessary

DOT Classification: Not regulated

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

Date prepared: 2/97