



# MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Date : 06/26/2001

## Church & Dwight Co., Inc. ARMEX® Blast Media

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: ARMEX® Blast Media, Aviation Formula, Composite Formula, Electronics Formula, HydroFlex Formula XL, Maintenance Formula, Maintenance Formula with SupraKleen™, Maintenance Formula XL, Maintenance Formula XL with SupraKleen™.

COMPANY IDENTIFICATION:

Church & Dwight Co., Inc.  
469 North Harrison St.  
Princeton, NJ 08543-5297

EMERGENCY / TECHNICAL NUMBERS:

(609) 683-5900  
(800) 228-5635, ext. 007 (USA)

PRODUCT INFORMATION: MSDS Requests and Product Information: (609) 683-5900

SPECIAL NOTES:

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENTS</u>	<u>CAS No.</u>
Proprietary Sodium Bicarbonate Based Mixture	
Sodium Bicarbonate (see Section 8 for exposure guidelines)	144-55-8

COMPOSITION COMMENTS: None

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White crystalline powder containing small brown particles. No odor. Thermal spark hazard. May also generate static electricity during dry blasting with improperly grounded or ungrounded equipment. Nuisance dust. No other significant health or environmental effects associated with this product.

POTENTIAL HEALTH EFFECTS

EYE: Not an eye irritant. Solid particles entering the eye can cause irritation due to mechanical action if left unwashed.

SKIN: Not a skin irritant.

INGESTION: Practically nontoxic. Ingestion of small amounts (1-2 tablespoonfuls) during normal handling operations are not likely to cause injury. Ingestion of larger amounts may cause abdominal discomfort or injury.

INHALATION: Practically nontoxic, but may aggravate preexisting upper respiratory and lung disorders.

SUBCHRONIC EFFECTS / CARCINOGENICITY: None known. Contains no ingredients listed as carcinogens or potential carcinogens by IARC, NTP, OSHA or ACGIH.

### 4. FIRST AID MEASURES

EYE: Make sure any contact lenses are removed. Flush eyes with clean flowing water, low pressure and luke warm water if possible, occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.

SKIN: Wash exposed areas thoroughly with soap or mild detergent and a large amount of water.

INGESTION: If large amounts are ingested, give water to drink. Do not give anything orally to an unconscious person. Seek medical attention.

INHALATION: If overexposure occurs, remove to area free from risk of further exposure. Treat symptomatically. Seek medical attention if irritation persists.

NOTE TO PHYSICIAN: Ingestion of large amounts may cause systemic alkalosis. Treatment based on judgement of physician in response to reactions of patient.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASH POINT: Nonflammable; noncombustible

METHOD USED: N/A

FLAMMABILITY LIMITS (% by volume in air): LFL & UFL not applicable

EXTINGUISHING MEDIA: Use extinguishing media for surrounding fire.

HMS RATINGS: Health 1; Flammability 0; Reactivity 0; Personal Protection x.

FIRE FIGHTING INSTRUCTIONS: Carbon dioxide may be generated by thermal decomposition or exposure to acids. Wear self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal or static sparks may be generated during blasting operations. There are steps that can be taken to minimize static electricity buildup. However, the thermal spark potential of this media makes it unsuitable for use in areas with potentially explosive or flammable materials. See Section 8 and product *Static Electricity Hazard Information Bulletin* for more information.

## 6. ACCIDENTAL RELEASE MEASURES

CLEANUP MEASURES: Scoop into clean, dry containers for disposal or reclamation. Wash away residue with water.

## 7. HANDLING AND STORAGE

NORMAL STORAGE: Store in original containers in a cool, dry area away from incompatible materials.

HANDLING: Wear approved dust mask or respirator during use or if dusts are generated during handling.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Wear a NIOSH approved dust-filter mask for general exposure and outdoor blasting work. Use an abrasive blasting respirator for indoor or enclosed work, and whenever blasting hazardous coatings.

EXPOSURE GUIDELINES: For Particles Not Otherwise Classified (PNOC) - TLV-TWA of 10 mg/m<sup>3</sup> as nuisance dust (ACGIH).

EYE AND FACE PROTECTION: Wear goggles or face shield during blasting operations.

SKIN AND HAND PROTECTION: General purpose gloves for handling dry product. Impervious (preferably heavy rubber) when abrasive blasting. Full cover clothing is sufficient for dry handling. Aprons or impervious cover for wet blasting operations.

PROTECTIVE WORK / HYGIENIC PRACTICES: No special requirements with respect to chemical exposure other than those noted above. However, when used in blasting, workers must adhere to good operating procedures designed to prevent physical contact with pressurized streams of ARMEX® Blast Media and surface coating to be removed. See operating instructions for blasting equipment.

Conduct the blasting operation in nonhazardous areas (those areas where flammable or combustible vapors, mists, gases or clouds of combustible dust are not present and will not be released). To prevent static electricity buildup, utilize proper grounding of the equipment and work piece, use a conductive nozzle, and wet blast whenever possible. See product *Static Electricity Hazard Information Bulletin* for more information.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: White crystalline powder

pH (as is): N/A

ODOR: Odorless

VAPOR PRESSURE: N/A

BOILING POINT: N/A

pH (1% solution w/v): 8.2

PHYSICAL STATE: Free flowing solid

VAPOR DENSITY (AIR = 1): N/A

FREEZING POINT: N/A

MELTING POINT: N/A

DENSITY (g/cc): approximately 1.0

PERCENT VOLATILE (VOL): N/A

SOLUBILITY: 8.6 g/100 ml @ 68°F

VOLATILE ORGANIC COMPOUNDS (VOC): None.

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Contact with acids. Temperatures above 228°F.

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to release carbon dioxide. May also yield free caustic in presence of lime dust (CaO) and moisture.

HAZARDOUS DECOMPOSITION PRODUCTS: Exposure to temperatures in excess of 228°F or incompatible materials (acids) may cause high levels of carbon dioxide gas to be generated. This presents a danger in confined spaces. Thermal decomposition brought on by exposure to temperatures in excess of 1000°F will yield sodium oxide, a severe skin, eye and inhalation irritant.

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Sodium bicarbonate, the principal constituent in ARMEX® Blast Media, is classified as practically nonirritating and minimally irritating to the washed and unwashed eye, respectively, when tested in accordance with 40 CFR Part 792. The Maximum Mean Total Score (MMTS) for washed eyes was 2.0. The MMTS for unwashed eyes was 8.3.

SKIN EFFECTS: Not a primary skin irritant when tested in accordance with 40 CFR 798.4470. The primary dermal irritation index (PDII) was 0.3 which indicates a minimal skin irritation potential.

ACUTE ORAL EFFECTS: Nontoxic when tested in accordance with 40 CFR 798.1175. The LD<sub>50</sub> (oral-rat) was 8.0 g/kg.

INHALATION EFFECTS: Nontoxic and exhibits no observed adverse effects when tested in accordance with 40 CFR 798.1150. The LC<sub>50</sub> was determined to be greater than 4.94 mg/l in rats over a 4 ½ hour exposure period.

## 12. DISPOSAL CONSIDERATIONS

Bury in a secured landfill in accordance with all local, state and federal environmental regulations. State and local regulations may differ from federal. Be sure to consult with appropriate agencies for specific rules. Empty containers may be incinerated or discarded as general trash.

Because of its nonhazardous nature, ARMEX® Blast Media waste from blasting operations may be diluted with a large volume of water and sewer. Coatings removed during blasting may need to be contained, collected and disposed of separately. You will still be required to provide proof to the POTW or your local authorities (if discharging directly into a storm sewer or waterway) that the waste material is nonhazardous.

## 13. TRANSPORTATION INFORMATION

TECHNICAL SHIPPING NAME: ARMEX® Blast Media Profile Formula XL with SupraKleen™

D.O.T. SHIPPING NAME: Not regulated.

U.N./N.A. NUMBER: None

D.O.T. LABEL: None

D.O.T. HAZARD CLASS: None

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. PLACARD: None

## 14. REGULATORY INFORMATION

ARMEX® ingredients are reported in the EPA TSCA Inventory.

ARMEX® ingredients are not listed as carcinogens or potential carcinogens by NTP Annual Report; IARC Group I or II; OSHA 29 CFR Part 1910, Subpart 2; ACGIH Appendix A.

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