MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SODA BLAST MEDIA MAINT M
Anilox Roll Formula
Aviation Formula
Composite Formula
DSCR Grade NSN6810-00-053-0194
Electronics Formula
Electronics Formula P
Flow Formula M
Flow Formula XL
Graffiti Formula
HydroFlex Formula XL
Maintenance Formula
Maintenance Formula with SupraKleen™
Maintenance Formula XL
Maintenance Formula XL with SupraKleen™

DISTRIBUTED BY:
The Easthill Group
dba/ The Eastwood Company
263 Shoemaker Road
Pottstown, PA 19464
USA & Canada: 800-345-1178
Outside USA: 610-323-2200

Emergency Contact:
Chem-Trec: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS Number
Proprietary Sodium Bicarbonate Based Mixture - Sodium Bicarbonate	144-55-8

Contains no hazardous ingredients at 1% or more (0.1% for carcinogens) as listed or defined in 29 CFR 1910.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Odorless, white crystalline powder.
May generate static sparks during dry blasting with improperly grounded equipment.
Nuisance dusts
No other significant health or environmental effects associated with these products.

HMIS Rating

Health	0
Fire	0
Reactivity	0
Personal Protection	X

Potential Health Effects

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EYE: Not an eye irritant. Solid or dust particles may cause irritation due to mechanical action if left unwashed.

SKIN CONTACT: Not a skin irritant

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

INHALATION: Non-toxic, but may aggravate pre-existing upper respiratory and lung disorders.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None know. Not listed as carcinogenic by IARC, NTP, OSHA, ACGIH or NIOSH.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IFF IRRITATION PERSIST GET MEDICAL ATTENTION.

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 over-exposure 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. No specialized procedures. Treat for clinical symptoms.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASHPOINT: Non-flammable; non-combustible

FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable

METHOD USED: Not applicable

EXTINGUISHING MEDIA: Use extinguishing media for surrounding fire.

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: Static sparks may be generated during the blasting operation. Special consideration should be given to work areas and applications in which flammable or combustible vapors, mists, gasses or clouds of combustible dust are either present or may be released. See Section 8 and product *Static Electricity Hazard Information Bulletin* for more information.

6. ACCIDENTAL RELEASE MEASURES

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Scoop into clean, dry containers for disposal. Wash away uncontaminated residue with water.

7. HANDLING AND STORAGE

Store in original containers in a cool, dry area away from incompatible materials. Wear approved dust mask during use or if dusts are generated during handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: ARMEX medias alone do not represent an inhalation hazard to the user. However, the use of these medias in ARMEX Cleaning and Coating Removal Systems presents use-specific exposure potentials based on the particular system and blasting conditions employed, and the characteristics of the coating being removed.

Abrasive Blasting: A NIOSH approved respirator with a dust filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits for general exposure to ARMEX dusts above the established exposure guideline (see below), and for outdoor blasting of non-hazardous coatings. Use an abrasive blasting respirator for indoor or enclosed work, and whenever blasting hazardous coatings. Whenever possible, use appropriate engineering controls and/or containment measures during abrasive blasting to minimize exposure to airborne dusts.

Soluble Media Injector/Power Washing: Respiratory protection is not normally required since the media is solubilized and dusts are not typically generated during this process. Conditions where respiratory protection would be required include worker exposure to excessive mists, work involving the removal of hazardous or potentially hazardous coatings, or when working in a confined space or area with limited ventilation. When it is determined that respiratory protection is required for certain operations, use an approved air-purifying or air-supplied respirator as appropriate.

EXPOSURE GUIDELINE: For Particles Not Otherwise Classified (PNOC) - TLV-TWA of 10 mg/m^3 as a nuisance dust (ACGIH).

PROTECTIVE GLOVES: General purpose for handling dry product or heavy gauge when dry blasting. Impervious (preferably heavy rubber) when wet blasting.

EYE PROTECTION: Wear safety goggles or face shield during abrasive blasting operations.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing is sufficient for general handling. Aprons or impervious cover for 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 coatings being removed. See operating instructions for blasting equipment.

To minimize static electricity hazards, properly ground the equipment and work piece, use a conductive nozzle, and wet blast whenever possible. Conduct the blasting operation in non-hazardous areas if possible. See *Static Electricity Hazard Information Bulletin.*

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystalline powder
ODOR: None
PHYSICAL STATE: Solid
pH AS IS: Not Applicable
pH (1% SOLN. w/v): 8.2
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
BOILING POINT: Not applicable
FREEZING/MELTING POINT: Not applicable
SOLUBILITY IN WATER: 8.6 g/100 ml @ 68°F
DENSITY (g/cc): Approximately 1.0
% VOLATILE: Not applicable
VOLATILE ORGANIC COMPOUNDS: 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: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Sodium bicarbonate, the principal constituent in ARMEX® Blast Media, was classified as practically non-irritating 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: ARMEX® Blast Media was 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: ARMEX® Blast Media was non-toxic when tested in accordance with 40 CFR 798.1175. The LD_{50} (oral-rat) was 8.0 g/Kg.

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INHALATION EFFECTS: ARMEX® Blast Media was non-toxic and exhibited no observed adverse effects when tested in accordance with 40 CFR 798.1150. The LC_{50} was determined to be greater than 4.94 mg/L in rats over a 4-1/2 hour exposure period.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Sodium bicarbonate, the principal constituent in ARMEX® Blast Media, is classified as practically non-toxic to the following environmental organisms:

Daphnids:	48 hour EC_{50} = 4100 mg/l; NOEC = 3100 mg/l
Bluegill:	96 hour LC_{50} = 7100 mg/l; NOEC = 5200 mg/l
Rainbow Trout:	96 hour LC_{50} = 7700 mg/l; NOEC = 2300 mg/l

PERSISTENCE: This material is not expected to persist in the environment.
BIOACCUMULATION: This material is not expected to bioaccumulate in the environment.

13. 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 non-hazardous nature, you may be able to sewer diluted waste ARMEX® Blast Media from blasting operations. 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 that the waste material is non-hazardous, and obtain the appropriate NPDES discharge permits (if discharging directly into a storm sewer or waterway).

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Not regulated. Shipped as ARMEX® Blast Media.

D.O.T. HAZARD CLASS: None

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

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. LABEL: None

D.O.T. PLACARD: None

15. REGULATORY INFORMATION

OSHA: Not hazardous under 29 CFR 1910.1200

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CERCLA REPORTABLE QUANTITY: None

RCRA: Not a hazardous waste by listing or characteristic

SARA TITLE III:

Section 302, Extremely Hazardous Substances: None
Section 311/312, Hazardous Categories: Non-hazardous
Section 313, Toxic Chemicals: None

ARMEX ingredients are reported in the EPA TSCA Inventory.

16. OTHER INFORMATION

SUPERSEDES DATE: 01/11/05

REASON FOR REVISION: Regulatory review of content.

For more non-emergency health, safety and environmental information telephone 609.279.7705 or write to:

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