



# SAFETY DATA SHEET

Conforms to Regulation (EC) 1907/2006 (REACH), Annex II

SDS NUMBER: SDS-970

ISSUE DATE: 12/21/2013

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1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY	
1.1	<p>Product identification</p> <p><b>ARMEX® BLAST MEDIA</b>            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            Microblend H</p>
1.2	<p>Relevant established use of the mixture</p> <p>These products are used as the blast media in pressurized blast cleaning equipment specially designed for handling this media.</p>
	<p>Chemical product category</p> <p>PC (Washing and cleaning products)</p>
1.3	<p>Information about the supplier of the Safety Data Sheet</p> <p>Church &amp; Dwight Co., Inc.            Corporate Technical Center            469 North Harrison Street            Princeton, NJ 08543-5297             Phone: +1-609-806-1757            Email: www.armex.com</p>
1.4	<p>Emergency telephone number</p> <p>Tel. (international) CHEMTREC: +1-703-527-3887            Tel.(international) Medical: +953-853-1925</p>
<p><b>2. HAZARDS IDENTIFICATION</b>  <b>Classification of the preparation according to the classification criteria established by Directives 67/548/EEC and 1999/45/EC</b></p>	

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2.1	Classification of the substance or mixture	The product is not classified as dangerous and should not present a hazard in normal professional industrial usage. 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 <i>Static Electricity Hazard Information Bulletin</i> for more information.
<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>		
3.1	Mixture	Mixture containing sodium bicarbonate. There are no ingredients or additional ingredients present which, within current knowledge of the supplier and in concentrations applicable, are classified as hazardous to human health or the environment and hence require reporting in this section.
3.2	Dangerous substances to health, pursuant to Directive 67/548/EEC and CLP Regulation 1272/2008 (subsequent amendments) or for which there are acknowledged exposure limits. Indication of the concentration or concentration range and its classification.	Sodium Hydrogen Carbonate: EC Number 205-633-88; CAS Number 144-55-8, Concentration >90%
<b>4. FIRST AID MEASURES</b>		
4.1	In case of inhalation	Remove the injured person from the polluted area for him/her to breathe fresh clean air. Seek medical attention if symptoms are evident.
4.2	In case of skin contact	Prevent jets of product from affecting the operator, In case of skin contact, wash out the contaminated part with water. Seek medical attention if irritation persists. Remove wet/contaminated clothing.
4.3	In case of eye contact	Avoid operator eye contact with jets of product. Wear the appropriate PPE. In case of eye contact, immediately irrigate the eye with copious quantities of water. Seek medical attention if irritation persists.
4.4	In case of ingestion	Do not induce vomiting. For ingestion of small quantities of product: wash out the mouth with water and drink 200 – 300 ml of warm water. Seek medical attention. For ingestion of large quantities of product, immediately seek medical attention.
4.5	Other information	Information for the doctor: symptomatic treatment.
<b>5. FIRE FIGHTING MEASURES</b>		
5.1	Suitable extinguishing media	Chemical dust, water spray. Use extinguishing media appropriate to the surrounding fire condition.

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5.2	Special hazards resulting from the substance or mixture	Involvement of large quantities of product in a fire can produce considerable levels of carbon dioxide (CO <sub>2</sub> ), making it necessary to wear positive pressure self-contained breathing apparatus. CO <sub>2</sub> is asphyxiating at levels in excess of 5%. Thermal breakdown (at temperatures over 190 °C) can produce sodium carbonate (soda ash) that is an irritant for the airways and for the skin.
5.3	Recommendations for firefighters	Protect the airways with a facial mask fitted with a universal filter (ensure that masks are certified and intact). Wear a suitable positive pressure self-contained breathing apparatus and all the necessary equipment in case of a large fire.
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
6.1	Personal precautions, protection devices and procedures in case of	Wear adequate protective gear. Do not smoke. Avoid inhaling fumes, mists or fogs. Remove outside personnel from the site.
6.2	Environmental precautions	In case of loss of small quantities of product: collect it (since it is solid) and wash the contaminated surface with water. In the event of large spillages, contain and dam the spillage, prevent the product from contaminating soil and water. Dispose of the product in compliance with current standards. The product can cause damage to the vegetation as a result of prolonged exposure. Ornamental plants, shrubs and trees can be damaged.
6.3	Methods and materials for containment and cleaning up	Dam the spillage with earth, sand or other inert material.
<b>7. HANDLING AND STORAGE</b>		
7.1	Precautions for safe handling	Store in the original containers. The usual good standards of industrial hygiene should be maintained. Avoid the formation and dispersion of dust. 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 <i>Static Electricity Hazard Information Bulletin</i> for more information.
7.2	Conditions for safe storage, including incompatibilities, if any	Location: Store in a cool dry warehouse. Keep away from acids. Conditions: Maximum 30°C. Storage: 12 months in the warehouse.
7.3	Specific final uses	The product is designed to be used as medium in a pressurized blast cleaning machines.
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
8.1	Control parameters	Workplace exposure limits.

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8.2 Exposure controls	Sodium Hydrogen Carbonate (powder) TWA (8 hours) = 5 mg/m <sup>3</sup> (inhalable dust) For Particles Not Otherwise Classified (PNOC) - TLV-TWA of 10 mg/m <sup>3</sup> as a nuisance dust (ACGIH).
8.2.1 (a) Hearing protection	Wear adequate ear guards when using spraying devices (> 80dbA).
8.2.1 (b) Respiratory Protection	<p>Avoid dispersion of dust. Ensure good ventilation in the workplace. Wear positive pressure self-contained breathing apparatus in case of fire.</p> <p>ARMEX media alone do not represent an inhalation hazard to the user. However, the use of these media 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.</p> <p><u>Abrasive Blasting:</u> A NIOSH/FFP2 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, 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.</p> <p><u>Soluble Media Injector/Power Washing:</u> 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.</p>
8.2.1 (c) Hand Protection	UNI EN 420: 2010 - General requirements for gloves. UNI EN 374-1/2/3: 2004 - Protective gloves against chemicals and micro-organisms General purpose for handling dry product or heavy gauge when dry blasting. Impervious (preferably heavy rubber) when wet blasting.

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8.2.1 (d) Eye Protection	UNI 10912: 2000 - Personal Protective Equipment- Guide to selection, use and maintenance of occupational eye and face protectors. UNI EN 166:2004 – Personal eye protection: Spécifications Safety goggles must be worn. Do not wear contact lenses. Wear safety goggles or face shield during abrasive blasting operations.
8.2.1 (e) Skin Protection	UNI EN 340: 2004 – Protective clothing: General requirements Overalls must be worn. Full cover clothing is sufficient for general handling. Aprons or impervious cover for blasting operations.
8.2.2 Environmental exposure controls	No special constraints. Prevent contamination of water and soil. 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about basic physical and chemical properties	
Appearance, colour and odour	White crystalline powder containing small brown particles, odourless.
pH	8.2 (1% solution).
Boiling Point	Not applicable.
Freezing Point	Not applicable.
Flash Point	Not applicable.
Autoignition Temperature	Not applicable.
Flammability	Not applicable.
Explosive Properties	Not applicable.
Oxidising Properties	Not applicable.
Vapour Pressure	Negligible.
Relative Density	Approximately 1 g/cc.
Water Solubility	3,4 - 7,7 g/100 ml (at 20° C in water).
Partition Coefficient	No data.

### 10. STABILITY AND REACTIVITY

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10.1	Reactivity	The preparation is stable.
10.2	Chemical stability	The preparation is stable in normal conditions of storage and use.
10.3	Potential hazardous reactions	Contact with acids. Temperatures above 109° C.
10.4	Conditions to avoid	During use, prevent jets of product from affecting skin and eyes. The product fraction with highest granulometry can have corrosive effects on skin and eyes because it is not water-soluble.
10.5	Incompatible materials	Incompatible with acids (effervesces and evolves carbon dioxide).
10.6	Hazardous Decomposition Products	In the presence of acids: carbon dioxide (potentially hazardous in an enclosed space). In a fire: carbon dioxide, sodium carbonate (for temperatures > 109 °C), sodium oxide.
<b>11. TOXICOLOGICAL INFORMATION</b>		
11.1	Toxicological information	Considering the available datas, sodium bicarbonate is a substance with low toxicity. LD50 oral rat 4220 mg/kg. Similar product LD50 oral rat 8000 mg/kg. No long term effects have been reported.
<b>12. ECOLOGICAL INFORMATION</b>		
12.1	Ecotoxicity	Sodium bicarbonate: Fish, <i>Lepomis Macrochirus</i> LC50 (96h): 8600 mg/l. <i>Daphnia</i> sp., LC50 (48h): 2350 mg/l. Similar products <i>Daphnids</i> . (48 hour) EC 50 : 4100 mg/l; NOEL : 3100 mg/l <i>Bluegill</i> (96 hour) LC50: 7100 mg/l; NOEC : 5200 mg/l <i>Rainbow trout</i> (96 hour) LC50 : 7700 mg/l; NOEC : 2300 mg/l
12.2	Persistence and degradability	These products are not expected to change by aerobic or anaerobic degradation (mainly consist of inorganic chemicals).
12.3	Bioaccumulative potential	These products are not expected to bioaccumulate.
12.4	Mobility in the soil	These products are almost completely soluble in water. They will migrate in soils.
12.5	Results of the PBT and vPvB	This mixture does not contain substances that are considered as persistent,
<b>13. DISPOSAL CONSIDERATIONS</b>		

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13.1	Waste treatment methods	Disposal to drain or other destinies must be in compliance with local consents and regulations. Do not dispose of with acids. 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 discharge permits (if discharging directly into a storm sewer or waterway).
<b>14.</b>	<b>TRANSPORT INFORMATION</b>	
14.1	ADR – RID – IMO – IMDG - ICAO - IATA	The product is not classified as dangerous for transport.
<b>15.</b>	<b>REGULATORY INFORMATION</b>	
15.1	Dedicated regulations and legislation on health, safety and environment for the substance or mixture	Classification in compliance with Directive 67/548/EEC; 1999/45/EC; 2001/58/EC. EC Regulation 1907/2006 (REACH); EC Regulation 453/2010 and/or with GHS criteria. Legislation on major-accident hazards 96/82/EC integration dated 2003.
15.2	Assessment of chemical safety	Not applicable.
<b>16.</b>	<b>OTHER INFORMATION</b>	
	List of R phrases (section 3)	Not applicable.
	List of H phrases with Hazard Indications (section 3)	Not applicable.
	This Safety Data Sheet cancels and replaces all previous versions. Changes implemented compared to the previous version: sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16 have been modified in compliance with EC Reg. 453/2010.	
	Safety Data Sheet based on references/experimentation and reference standards:	EC Regulation n. 1907/2006 (REACH) EC Regulation n. 1272/2008 (CLP) EC Regulation n. 790/2009 EC Regulation n. 453/2010 Directive 1999/45/EC and subsequent amendments and integrations Directive 2001/ 58/EC and subsequent amendments and integrations Decision 2000/532/EC and subsequent amendments and integrations Directive 67/548/EEC and subsequent amendments and integrations Agreement Concerning the International Carriage of Dangerous Good by Road (ADR). International Maritime Dangerous Goods Code (IMDG Code). International Air Transport Association (IATA). Legislation on major-accidents hazards 96/82/EC integration dated 2003.

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Notes	<p>This document must be read and understood before using the product.</p> <p>The information contained in this Safety Data Sheet is based on data currently accessible to us, and has the purpose of “describing” the product only for health and safety purposes.</p> <p>It is the user's responsibility to be satisfied as to the suitability of the product for any particular application.</p>
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