



# ARMEX™ Blast Media, Profile Formula

## Safety Data Sheet

According to SS 586:Part 3:2008(2014), and SS 586:Part 2:2014  
Revision Date: 01/04/2021

Date of Issue: 04/07/2016

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** ARMEX™ Blast Media, Profile Formula

#### Intended Use of the Product

Blast media.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Church & Dwight  
500 Charles Ewing Blvd  
Ewing Township, NJ 08628  
T 609-806-1200

[www.churchdwight.com](http://www.churchdwight.com)

#### Emergency Telephone Number

**Emergency number** : For Medical Emergency: 1-888-234-1828 (USA and Canada) 952-853-1925 (Outside USA and Canada), For Chemical Emergency (CHEMTREC): 1-800-424-9300 (USA and Canada) 1-703-741-5970 (Outside USA and Canada)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-SG)**

Not classified

#### Label Elements

##### **GHS-SG Labeling**

No labeling applicable

#### Other Hazards

**Other Hazards Not Contributing to the Classification:** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

**Unknown Acute Toxicity (GHS-SG)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Concentration(%)	Product identifier
Sodium bicarbonate	89.4%	(CAS No) 144-55-8
Aluminum oxide	10%	(CAS No) 1344-28-1
Magnesium oxide (MgO)	0.25%	(CAS No) 1309-48-4
Silica, amorphous, precipitated and gel	0.25%	(CAS No) 112926-00-8
Sodium lauryl sulfate	0.1%	(CAS No) 151-21-3

### SECTION 4: FIRST AID MEASURES

#### Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**Skin Contact:** Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

**Personal Protection in First Aid and Measures:** Use appropriate personal protection equipment (PPE).

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### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** None expected under normal conditions of use.

**Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Eye Contact:** Contact may cause irritation due to mechanical abrasion.

**Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not flammable. Under fire conditions, hazardous fumes will be present.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not breathe dust or fumes. Avoid skin and eye contact.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated, material emits irritating fumes.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Materials:** Acids. Water. Lime.

**Maximum Storage Period:** 12 months

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**Storage Temperature:** < 30 °C (< 86 °F)

### **Specific End Use(s)**

Blast media.

### **Name, Address, and Telephone of the Responsible Party**

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

<b>Silica, amorphous, precipitated and gel (112926-00-8)</b>		
<b>Singapore</b>	OEL PEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Magnesium oxide (MgO) (1309-48-4)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>Singapore</b>	OEL PEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (fume)
<b>Aluminum oxide (1344-28-1)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Singapore</b>	OEL PEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Particulates not otherwise classified (PNOC) (Not applicable)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> Respirable fraction 10 mg/m <sup>3</sup> Total Dust
<b>Singapore</b>	OEL PEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

### **Exposure Controls**

**Appropriate Engineering Controls:** For occupational/workplace settings: Ensure all national/local regulations are observed. Ensure good ventilation of the work station.

**Personal Protective Equipment:** Gloves. Safety glasses. Dust formation: dust mask.



**Materials for Protective Clothing:** For occupational/workplace settings: Chemically resistant materials and fabrics.

**Hand Protection:** For occupational/workplace settings: Wear chemically resistant protective gloves.

**Eye Protection:** For occupational/workplace settings: Chemical goggles or safety glasses.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	: Solid
<b>Appearance</b>	: White and brown crystalline powder with brown small particles
<b>Odor</b>	: None
<b>Odor Threshold</b>	: Not available
<b>pH</b>	: 8.2 (1% Solution)
<b>Melting Point</b>	: Not available
<b>Freezing Point</b>	: Not available
<b>Boiling Point</b>	: Not available
<b>Flash Point</b>	: Not available
<b>Auto-ignition Temperature</b>	: Not available
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower Flammable Limit</b>	: Not available
<b>Upper Flammable Limit</b>	: Not available
<b>Vapor Pressure</b>	: Not available

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Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific gravity / density	: 62 lb/ft <sup>3</sup>
Specific Gravity	: Not available
Solubility	: Water: 8.6 g/100ml @ 20 °C (68 °F)
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available

## SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** Hazardous reactions will not occur under normal conditions.
- Chemical Stability:** Decomposes slowly on exposure to water (moisture).
- Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- Conditions to Avoid:** Exposure to moisture or moist air. Temperatures above 150°F (65.6°C).
- Incompatible Materials:** Acids. Water. Lime.
- Hazardous Decomposition Products:** None known. At high temperature may liberate toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

#### LD50 and LC50 Data:

ARMEX™ Blast Media, Profile Formula	
LD50 Oral Rat	8 g/kg , similar product

**Skin Corrosion/Irritation:** Not classified.

**pH:** 8.2 (1% Solution)

**Serious Eye Damage/Irritation:** Not classified.

**pH:** 8.2 (1% Solution)

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Eye Contact:** Contact may cause irritation due to mechanical abrasion.

**Symptoms/Injuries After Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

**Chronic Symptoms:** None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Sodium Lauryl Sulfate (151-21-3)	
LD50 Oral Rat	1288 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 3900 mg/m <sup>3</sup> (Exposure time: 1 h)
Aluminum Oxide (1344-28-1)	
LD50 Oral Rat	> 15900 mg/kg
LC50 Inhalation Rat	> 2.3 mg/l/4h
Sodium Bicarbonate (144-55-8)	
LD50 Oral Rat	4220 mg/kg
Silica, Amorphous, Precipitated And Gel (112926-00-8)	
IARC Group	3

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### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

Ecology - General: Not classified.

ARMEX™ Blast Media, Profile Formula	
LC50 Fish 1	7100 mg/l Bluegill, similar product
EC50 Daphnia 1	4100 mg/l , similar product
LC 50 Fish 2	7700 mg/l Rainbow Trout, similar product
Sodium Lauryl Sulfate (151-21-3)	
LC50 Fish 1	8 (8 - 12.5) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	15 (15 - 18.9) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Aluminum Oxide (1344-28-1)	
LC50 Fish 1	> 100 mg/l
EC50 Daphnia 1	> 100 mg/l
ErC50 (algae)	> 100 mg/l
NOEC (acute)	> 50 mg/l
Sodium Bicarbonate (144-55-8)	
LC50 Fish 1	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### Persistence and Degradability

ARMEX™ Blast Media, Profile Formula	
Persistence and Degradability	Not established.

#### Bioaccumulative Potential

ARMEX™ Blast Media, Profile Formula	
Bioaccumulative Potential	Not established.
Sodium Lauryl Sulfate (151-21-3)	
BCF Fish 1	(will not bioconcentrate)
Log Pow	1.6

**Mobility in Soil** Not available

#### Other Adverse Effects

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with UNRTDG** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**Special Precautions for User** Not available

**Transport in Bulk (According to Annex II of Marpol 73/78 and IBC code)** Not available

### SECTION 15: REGULATORY INFORMATION

#### International Regulations

Silica, amorphous, precipitated and gel (112926-00-8)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)

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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

### **Sodium lauryl sulfate (151-21-3)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

### **Magnesium oxide (MgO) (1309-48-4)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

### **Aluminum oxide (1344-28-1)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on INSQ (Mexican national Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

### **Sodium bicarbonate (144-55-8)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### **International Agreements**

No additional Information available

### **Singapore Regulations**

No additional Information available

## **SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision date** : 01/04/2021

**Other Information** : According to SS 586:Part 3:2008(2014) Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods – Part 3: Preparation of Safety Data Sheets (SDS), and SS 586:Part 2:2014 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods – Part 2: Globally Harmonised System of Classification and Labelling of Chemicals – Singapore’s Adaptations.

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Singapore GHS SDS