



ARMEX™ Blast Media, Profile Formula

Safety Data Sheet

The SDS is prepared in accordance with the SDS requirements of the Ministry of Employment and Labor (MOEL) of South Korea public notice No. 2012-14
Revision Date: 2016/01/27

Version: 1.0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: ARMEX™ Blast Media, Profile Formula

1.2. Intended Use of the Product

Recommended Uses And Restrictions: Blast media

1.3. 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

1.4. 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: HAZARD IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS classification (KR) Not classified

2.2. Other Hazards

Other Hazards Which Do Not Result In Classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS

3.1. Mixture/Substance

Distinction of Substance or Mixture : Mixture

Substance Name	CAS No	Formula	Concentration*
Silica, amorphous, precipitated and gel	112926-00-8	Unspecified	0.1 - 1%
Sodium lauryl sulfate	151-21-3	C ₁₂ H ₂₅ NaO ₄ S	0.1 - 1%
Magnesium oxide (MgO)	1309-48-4	MgO	0.1 - 1%
Aluminum oxide	1344-28-1	Al ₂ O ₃	5 - 10%
Sodium bicarbonate	144-55-8	CH ₂ O ₃ .Na	60 - 100%

*The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-Aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

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

First-Aid Measures After 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.

First-Aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: None expected under normal conditions of use.

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.

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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.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Other medical advice or treatment: If exposed or concerned, get medical advice and attention

SECTION 5: EXPLOSION, FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media Use extinguishing media appropriate for surrounding fire.

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

5.2. 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.

5.3. Advice for Firefighters

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

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

Firefighting Instructions: Exercise caution when fighting any chemical fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. 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 Responders

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.

6.2. Environmental Precautions

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

6.3. Methods and Material 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.

Prevention Measures for Secondary Accidents: Ventilate area.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Technical Measures: When heated, material emits irritating fumes. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Local And General Ventilation: Ensure adequate air ventilation.

Precautions For Safe Handling: Keep container closed when not in use.

Prevents Handling Of Incompatible Substances Or Mixtures: Store away from strong acids, strong bases, and strong oxidizers.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Incompatible Substances Or Mixtures: Refer to section 10

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Storage Conditions: Store in a dry, cool and well-ventilated place.

Material Used In Packaging/containers: No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limits/ Biological limits

Silica, Amorphous, Precipitated And Gel (112926-00-8)		
Korea	ISHA TWA (mg/m ³)	10 mg/m ³
China	OEL STEL	10 mg/m ³ (total dust)
China	OEL TWA	5 mg/m ³ (total dust)
Magnesium Oxide (Mgo) (1309-48-4)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Korea	ISHA TWA (mg/m ³)	10 mg/m ³
China	OEL STEL	20 mg/m ³ (fume)
China	OEL TWA	10 mg/m ³ (fume)
Aluminum Oxide (1344-28-1)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
Korea	ISHA TWA (mg/m ³)	10 mg/m ³
China	OEL STEL	8 mg/m ³ (total dust)
China	OEL TWA	4 mg/m ³ (total dust)
Particulates Not Otherwise Regulated (Pnor) (RR-00072-6)		
ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust
Korea	ISHA TWA (mg/m ³)	10 mg/m ³ (no more than 1% crystalline silica)
China	OEL STEL	16 mg/m ³ (free SiO ₂ <10%-total)
China	OEL TWA	8 mg/m ³ (free SiO ₂ <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO ₂ >10%-total)

Biological Limits No data available

8.2. 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.



Respiratory Protection: For occupational/workplace settings: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

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

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

Skin And Body Protection: For occupational/workplace settings: Wear appropriate personal protective equipment.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	:	White and brown crystalline powder with brown small particles
Physical State	:	Solid
Molecular Mass	:	No data available
Odour	:	None
Odor Threshold	:	No data available
pH	:	8.2 (1% Solution)
Melting Point	:	No data available

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Boiling Point	: No data available
Flash Point	: No data available
Autoignition Temperature	: No data available
Flammability (Solid, Gas)	: Non flammable
Vapour Pressure	: No data available
Relative Vapour Density At 20 °C	: No data available
Solubility	: Water: 8,6 g/100ml @ 20 °C (68 °F)
N-octanol/ Water Partition Coefficient	: No data available
Decomposition Temperature	: No data available
Viscosity	: No data available
Explosive Limits (g/m ³)	: No data available
Explosive Limits (vol %)	: Not applicable
Density	: 62 lb/ft ³

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2 Chemical Stability:** Decomposes slowly on exposure to water (moisture).
- 10.3 Possibility Of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4 Conditions To Avoid:** Exposure to moisture or moist air. Temperatures above. avoid temperatures above 150 °F (65.6 °C).
- 10.5 Incompatible materials:** Acids. Lime.
- 10.6 Hazardous Decomposition Products:** None known. At high temperature may liberate toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects - Product

Acute Toxicity	Not classified.
LD50 Oral Rat	8 g/kg , similar product
Eye damage/Irritation	Not classified.
Skin Corrosion/Irritation	Not classified.
Respiratory Sensitization	Not classified.
Skin Sensitization	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive Toxicity	Not classified.
Specific Target Organ Toxicity (Single Exposure)	Not classified.
Specific Target Organ Toxicity (Repeated Exposure)	Not classified.
Aspiration Hazard	Not classified.

11.2 Information on Toxicological Effects Ingredient(s)

Sodium Lauryl Sulfate (151-21-3)	
LD50 Oral Rat	1288 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 3900 mg/m ³ (Exposure time: 1 h)
Aluminum Oxide (1344-28-1)	
LD50 Oral Rat	> 15900 mg/kg
LC50 Inhalation Rat (mg/l)	> 2.3 mg/l/4h
Sodium Bicarbonate (144-55-8)	
LD50 Oral Rat	7334 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity	: No data available
Fish Toxicity / Other Toxicity	: No data available
LC50 fish 1	: 7100 mg/l Bluegill, similar product
EC50 Daphnia 1	: 4100 mg/l , similar product

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LC50 fish 2 : 7700 mg/l Rainbow Trout, similar product
Other Information : Avoid release to the environment

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)

12.2. Persistence and Degradability

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

12.3. 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

12.4. Mobility in Soil

No data available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Description of waste materials: No data available

Waste treatment methods: No data available

SECTION 14: TRANSPORT INFORMATION

14.1 In accordance with UN TDG Not regulated for transport

14.2 In Accordance with IATA Not regulated for transport

14.3 In Accordance with IMDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

Asia/Pacific Regulations

Silica, Amorphous, Precipitated And Gel (112926-00-8)
Regulatory Reference 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) 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)

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Sodium Lauryl Sulfate (151-21-3)	
Regulatory Reference 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)	
Ordinance for Enforcement of the Occupational Safety and Health Act (Annex 11-4)	Hazardous work environment factors measurement object
Standard on Occupational Safety and Health (MOEL sixth issue, 2010.9.30)	Hazardous Substances Subject to Control
ISHA	Hazardous Substances Subject to Control - Metals
Regulatory Reference 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)	
Toxic Release Inventory	Group II
Toxic Release Inventory (TRI) - Threshold	>= 1.0 % (by weight)
Pollutant Release and Transfer Registers	Group II
Regulatory Reference 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)	
Regulatory Reference Listed on the AICS (Australian Inventory of Chemical Substances)	

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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
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SECTION 16: OTHER INFORMATION

Revision Date : 2016/01/27
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Other Information : The SDS is prepared in accordance with SDS requirements of the Ministry of Employment and Labor (MOEL) of South Korea public notice No. 2012-14

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