ARMEX™ Blast Media, Profile Formula

Chemical Safety Data Sheet

The SDS is prepared in accordance with GB/T 16483, GB/T 17519 and GB 30000

Revision date: 2016/01/27 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Form: Mixture

Product Name: ARMEX™ Blast Media, Profile Formula

Intended Use of the Product

Recommended Uses and Restrictions: 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

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

Emergency Overview:

A white crystalline powder containing small brown particles with no odor. Not hazardous.

Classification of the Substance or Mixture

GHS classification (CN) Not classified

Health Hazard Information

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.

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.

Physiochemical Hazard No data available

Environmental Hazard No data available

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

Mixture/Substance

Distinction of Substance or Mixture : Mixture

Name	Concentration*	CAS No
Silica, amorphous, precipitated and gel	0.1 - 1%	112926-00-8
Sodium lauryl sulfate	0.1 - 1%	151-21-3
Magnesium oxide (MgO)	0.1 - 1%	1309-48-4
Aluminum oxide	5 - 10%	1344-28-1
Sodium bicarbonate	60 - 100%	144-55-8

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

SECTION 4: FIRST AID MEASURES

First Aid

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 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.

The Most Important Symptoms and Health Effects

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.

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.

Advice for The Rescuer

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

Special Note for Doctor

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

SECTION 5: FIREFIGHTING 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

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

Explosion Hazard: Product is not explosive.

Reactivity in Case of Fire: None known.

Hazardous Decomposition Products in Case of Fire: Carbon oxides (CO, CO_2). Sodium carbonate.

Fire Precautions and Protective Measures

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.

Specific Fire Fighting:

Firefighting Instructions: Exercise caution when fighting any chemical fire.

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 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.

Environmental Protection Measures

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

Methods and Material Used for Collection, Disposal of Leak

Methods and Equipment for Containment and Cleaning up: Contain and collect as any solid.

Precautionary Measures to Prevent the Occurrence of Secondary Disasters

Secondary Disaster Prevention Measures: 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.

SECTION 7: HANDLING AND STORAGE

Handling

Technical Measures: 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.

Local and General Ventilation: Ensure good ventilation of the work station.

Precautions for Safe Handling: Avoid creating or spreading dust. Do not breathe dust or fumes.

Prevents Handling of Incompatible Substances or Mixtures: Avoid contact with acids and water.

Storage

Incompatible Substances or Mixtures: Refer to section 10.

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

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

Maximum Storage Period: 12 months

Material Used in Packaging/containers: No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Silica, amorphous, precipitated and gel (112926-00-8)		
China	OEL STEL	10 mg/m³ (total dust)
China	OEL TWA	5 mg/m³ (total dust)

Magnesium oxide (MgO) (1309-48-4)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable fraction)
ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
China	OEL STEL	20 mg/m³ (fume)
China	OEL TWA	10 mg/m³ (fume)

Aluminum oxide (1344-28-1)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
China	OEL STEL	8 mg/m³ (total dust)
China	OEL TWA	4 mg/m³ (total dust)

Particulates not otherwise regulated (PNOR) (RR-00072-6)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m^3 Respirable fraction 10 mg/m^3 Total Dust
China	OEL STEL	16 mg/m³ (free SiO2 <10%-total)
China	OEL TWA	8 mg/m³ (free SiO2 <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO2 >10%-total)

Biological Limits

No data available

Monitoring Methods

Monitoring Methods: No data available

Engineering 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

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. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.

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: For occupational/workplace settings: 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

Information on Basic Physical and Chemical Properties

Appearance	:	White and brown crystalline powder with brown small particles
Physical State	:	Solid
Odour	:	None
pH Value	:	8.2 (1% Solution)
Melting point/Freezing Point	:	No data available
Boiling Point, Initial Boiling Point and Boiling Range	:	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 Distribution Coefficient	:	No data available
Decomposition Temperature	:	No data available
Viscosity	:	No data available
Explosive Limits (G/M³)	:	No data available
Explosive Limits (Vol %)	:	Not applicable
Density	:	62 lb/ft^3

SECTION 10: STABILITY AND REACTIVITY

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. avoid temperatures above 150 °F (65.6 °C).

Incompatible Materials: Acids. Lime.

Hazardous Decomposition Products: None known. At high temperature may liberate toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral) - Description	:	Not classified
Acute Toxicity (Dermal) - Description	:	Not classified
Acute Toxicity (Inhalation) - Description	:	Not classified
LD50 Oral Rat	:	8 g/kg , similar product
Skin Corrosion/Irritation - Description	:	Not classified
Serious Eye Damage/Irritation - Description	:	Not classified
Respiratory or Skin Sensitization - Description	:	Not classified
Germ Cell Mutagenicity - Description	:	Not classified
Carcinogenicity - Description	:	Not classified
Reproductive Toxicity - Description	:	Not classified
Specific Target Organ Toxicity (Single Exposure) - Description	:	Not classified
Specific Target Organ Toxicity (Repeated Exposure) - Description	:	Not classified
Aspiration - Description	:	Not classified
Other Health Hazard	:	No data available

Information on Toxicological Effects Ingredient(s)

Silica, amorphous, precipitated and gel (112926-00-8)	
IARC group	3

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/m³ (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

Toxicity

Acute Aquatic Toxicity - Description : Not classified
Acute Chronic Toxicity - Description : Not classified
LC50 Fish 1 : 7100 mg/l Bluegill, similar product
EC50 Daphnia 1 : 4100 mg/l , similar product
LC50 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

No data available

Other Adverse Effects

Ozone - Description : Not classified
Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Chemicals

Additional Information: Not a hazardous waste.

Disposal Matters

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 IATA Not regulated for transport

In Accordance with IMDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

Asia/Pacific Regulations

ARMEX™ Blast Media, Profile Formula	
Priority List of Hazardous Chemical Wastes	No

Silica, amorphous, precipitated and gel (112926-00-8)	
Priority List of Hazardous Chemical Wastes	No

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)

Sodium lauryl sulfate (151-21-3)	
Priority List of Hazardous Chemical Wastes	No

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)	
Priority List of Hazardous Chemical Wastes	No

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)

Priority List of Hazardous Chemical Wastes	No

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)

Particulates not otherwise regulated (PNOR) (RR-00072-6)	
Priority List of Hazardous Chemical Wastes	No
Air Pollutants - Emission Limits	22 mg/m³ (existing facilities, carbon black and dye dusts)

Sodium bicarbonate (144-55-8)	
Priority List of Hazardous Chemical Wastes	No

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

International Agreements

SECTION 16: OTHER INFORMATION

Revision Date : 2016/01/27

Other Information : The SDS is prepared in accordance with GB/T 16483 & GB/T 17519 and and GB 30000.

This Product Safety Data Sheet is offered solely for your information, consideration and investigation. Church & Dwight Co., Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Church & Dwight Co., Inc. urges persons receiving this information to make their own determination as to the information suitability for their particular application.

SDS China GHS