ARMEX™ Blast Media, Profile Formula

Safety Data Sheet

In accordance with JIS Z 7253: 2012 and JIS Z 7252: 2009

Revision date: 2016/01/27 Date of issue: 2016/01/27 Version: 1.0

SECTION 1: CHEMICAL IDENTIFIER AND COMPANY IDENTIFICATION

Product Identifier

Product Form : Mixture

Product Name : ARMEX™ Blast Media, Profile Formula

Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Use of the substance/mixture : Blast media

Details Of The Supplier Of The Safety Data Sheet

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

Classification Of The Substance Or Mixture

GHS-JP Classification

Not classified

Label Elements

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Concentration*	Formula	Kanpo Number		CAS No
			CSCL no	ISHL no	
Silica, amorphous, precipitated and gel	0.1 - 1%	Unspecified	(1)-548		112926-00-8
Sodium lauryl sulfate	0.1 - 1%	$C_{12}H_{25}NaO_4S$	(2)-1679;(2)-1675		151-21-3
Magnesium oxide (MgO)	0.1 - 1%	MgO	(1)-465		1309-48-4
Aluminum oxide	5 - 10%	Al_2O_3	(1)-23		1344-28-1
Sodium bicarbonate	60 - 100%	$CH_2O_3.Na$	(1)-164		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

Description Of First Aid Measures

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

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.

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.
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.

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.

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 Precautions

Prevent Entry To Sewers And Public Waters. Avoid Release To The Environment.

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.

Reference To Other Sections

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

SECTION 7: HANDLING AND STORAGE PRECAUTIONS

Precautions For Safe Handling

Additional Hazards When Processed : When heated, material emits irritating fumes.
Precautions For Safe Handling : Avoid creating or spreading dust. Do not breathe dust or 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.

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

Specific End Use(S)

Blast media

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

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

Aluminum oxide (1344-28-1)		
Japan	Exposure limits (JSOH)	【Occupational exposure limits for dusts】(Class 1) Respirable dust0.5mg/m3 Total dust2mg/m3
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³

Particulates not otherwise classified (PNOC) (RR-00072-6)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m^3 Respirable fraction 10 mg/m^3 Total Dust

Biological Limits No data available

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.

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

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

Physical State : Solid

Appearance : White and brown crystalline powder with brown small particles

Odor : None

Odor Threshold : No data available

Ph : 8.2 (1% Solution)

Evaporation Rate : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash Point : No data available

Auto-Ignition Temperature : No data available

Decomposition Temperature : No data available

Flammability (Solid, Gas) : No data available

Vapor Pressure : No data available

Relative Vapor Density At 20 °C	: No data available
Relative Density	: No data available
Specific Gravity / Density	: 62 lb/ft^3
Solubility	: Water: 8.6 g/100ml @ 20 °C (68 °F)
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Explosion Limits	: Not applicable

Other Information No data 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. 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: HAZARD INFORMATION

Information on toxicological effects
Acute toxicity : Not classified

ARMEX™ Blast Media, Profile Formula	
LD50 oral rat	8 g/kg , similar product

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

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Not classified
Other information	: Not classified

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

ARMEX™ Blast Media, Profile Formula	
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)
LC50 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

Other information : Avoid release to the environment.

SECTION 13: NOTES ON DISPOSAL

Waste treatment methods No data available

SECTION 14: TRANSPORT INFORMATION

In accordance with UN TDG Not regulated for transport

In Accordance with IATA Not regulated for transport

In Accordance with IMDG/IMO Not regulated for transport

Other Information No data available

SECTION 15: REGULATORY INFORMATION

Regulatory Information

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)

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)

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)

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)
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)

SECTION 16: OTHER INFORMATION

Revision date : 2016/01/27

Data sources : This document has been prepared in accordance with the SDS requirements of the Japanese Hazard Communication Standard JIS Z 7253: 2012 and JIS Z 7252:2009

Japan GHS SDS

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