Material Safety Data Sheet

Material Name: PENNGUARD® BLOCK **ID:**

* * * Section 1 - Chemical Product and Company Identification * * *

Product Trade Name PENNGUARD® BLOCK

Manufacturer Information

Ergon Armor
Corrosion Engineering
P.O. Box 1639
Jackson, MS 39215-1639

Contact Phone: (601) 933-3540

Chemtrec Emergency # (800) 424-9300

* * * Section 2 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
65997-17-3	Glass fibers	>60
124-38-9	Carbon dioxide	<1
630-08-0	Carbon monoxide	<1

* * * Section 3 - Hazards Identification * * *

Emergency Overview:

CAUTION!
MAY CAUSE EYE AND SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential Health Effects:

Glass fibers

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Occupational exposure to this material has not been reported to cause significant adverse health effects. Overexposure to dusts, however, may cause eye, skin and upper respiratory tract irritation. On the basis of available information, exposure to this material is not expected to produce significant adverse human health effects when recommended safety precautions are followed.

* * * Section 4 - First Aid Measures * * *

Eye Contact:

Immediately flush with plenty of water. Get medical attention if irritation persists.

If On Skin

Immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion:

Induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

* * * Section 5 - Fire Fighting Measures * * *

Flash Point:	Not established	**Method Used:**		**Flammability Classification:**	
Upper Flammable Limit (UFL):	NE	**Lower Flammable Limit (LFL):**	NE		

Fire & Explosion Hazards:

Avoid breathing fumes from fire exposed material.

Extinguishing Media:

Use water spray, carbon dioxide, foam or dry chemical.

Fire-Fighting Instructions:

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

* * * Section 6 - Accidental Release Measures * * *

Spill or Leak

Contain spill. Sweep or scoop up and remove to suitable container.

* * * Section 7 - Handling and Storage * * *

Handling Procedures:

Do not breathe dust. Keep container closed. Use only with adequate ventilation. Do not get in eyes, on skin or clothing. Wash thoroughly after handling.

Storage Procedures:

Store in a cool, dry place. Avoid excessive heat.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Carbon monoxide (630-08-0)

ACGIH: 25 ppm TWA
OSHA: 50 ppm TWA; 55 mg/m3 TWA
NIOSH: 35 ppm TWA; 40 mg/m3 TWA
200 ppm Ceiling; 229 mg/m3 Ceiling

Carbon dioxide (124-38-9)

ACGIH: 5000 ppm TWA
30,000 ppm STEL
OSHA: 5000 ppm TWA (exposures < 10,000 ppm to be cited de minimus); 9000 mg/m3 TWA
30,000 ppm STEL; 54,000 mg/m3 STEL
NIOSH: 5000 ppm TWA; 9000 mg/m3 TWA
30000 ppm STEL; 54000 mg/m3 STEL

Engineering Controls:

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

Skin Protection:

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection:

Avoid breathing dust. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Solid	**Appearance:**	Black
Odor:	Odorless	**Vapor Pressure:**	N/A
Vapor Density:	N/A	**Boiling Point:**	N/A
Melting Point:	NE	**Specific Gravity:**	0.2 @ 25/25 C
pH:	N/A	**Viscosity:**	
VOC:		**Solubility Water:**	Insoluble

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility:

None identified.

Decomposition Products:

None identified.

Hazardous Polymerization:

Hazardous polymerization is not known to occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Carbon monoxide (630-08-0)

Inhalation LC50 Rat: 1807 ppm/4H

Inhalation LC50 Mouse: 2444 ppm/4H

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Chronic Toxicity

No information available for the product.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Numbers & Descriptions:

A: General Product Information

Recover, reclaim or recycle when practical. Dispose of in an approved landfill if allowed locally. Comply with federal, state, and local regulations. Dispose of in a permitted waste management facility if incineration or landfill is not practical.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312: Acute: Y **Chronic:** N **Fire:** N **Pressure:** N **Reactive:** N

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Glass fibers	65997-17-3	No	No	No	Yes	No	No
Carbon monoxide	630-08-0	Yes	Yes	Yes	Yes	Yes	Yes
Carbon dioxide	124-38-9	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Glass fibers	65997-17-3	Yes	Yes	Yes
Carbon monoxide	630-08-0	Yes	Yes	Yes
Carbon dioxide	124-38-9	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Carbon monoxide	630-08-0	0.1%; English Item 312; French Item 1174

* * * Section 16 - Other Information * * *

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Ergon Armor bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.