

ERGON ARMOR

MSDS No. EA087

Hawk-Seal/Hawk-Wrap

Date of Preparation: **March 19, 2010**

Revision No. 1

Section 1 – Chemical Product and Company Information

Product/Chemical Name:	Hawk-Seal/Hawk-Wrap
Chemical Formula:	Mixture
CAS Number:	Mixture
Other Designations:	
General Use:	Adhesive
Manufacturer:	Ergon Armor, 450 Funston, Kansas City, Kansas 66115, (913) 371-8555; Hours of Operation 8:00 am – 5:00 pm; ERGON 24 Hour Emergency Phone Number 1-800-222-7122; CHEMTREC 1-800-424-9300.

Section 2 – Composition / Information on Ingredients

Ingredient Name	CAS Number	% Wt
Quartz	14808-60-7	<0.3
Amorphous Silica	7631-86-9	<5.0

INGREDIENT	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDHL
	TWA	STEL	TWA	STEL	TWA	STEL	
Crystalline Silica as quartz	10 mg/m ³ / (%SiO ₂ +2) (respirable, Table Z-3)	None estab.	0.025 mg/m ³ (respirable)	None estab.	0.05 mg/m ³ (respirable)	None estab.	50 mg/m ³
Amorphous Silica	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.

Section 3 – Hazards Information

EMERGENCY OVERVIEW

HMIS H-1 F-1 R-0 PPE* * Sec.8

POTENTIAL HEALTH EFFECTS

Primary Entry Routes: Absorption.

Target Organs: Mucous membranes and skin.

Acute Effects

Inhalation: Not expected to be a problem under normal use. Irritating vapors may be formed when product is processed at high temperatures.

Eye: Contact with eye may cause irritation.

Skin: Moderately irritating; Repeated exposure may lead to photosensitization and drying of the skin.

Ingestion: Irritating to mucous membranes and gastrointestinal tract.

Carcinogenicity: Respirable quartz is classified as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Dermatitis.

Chronic Effects: Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis.

Section 4 – First Aid Measures

Inhalation: Remove to fresh air. Apply artificial respiration if needed. Seek medical attention.

Eye Contact: Flush thoroughly with water for at least 15 minutes. If irritation persists seek medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting and seek medical help.

After first aid, get appropriate in-plant paramedic or community medical support.

Special Precautions/Procedures:

Provide adequate ventilation to keep vapors below allowable exposure levels. Use PPE appropriate for the task.

Section 5 – Fire Fighting Measures

Flash Point: > 204°F
Flash Point Method: COC
Ignition Temperature: No Data
LEL: NA
UEL: NA
Flammability Classification: Class IIIB
Extinguishing Media: Water, dry chemical, foam, and carbon dioxide.
Unusual Fire or Explosion Hazards: No known unusual hazards in a fire/explosion situation. Material will burn in fire.
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and sulfur dioxide.
Fire-Fighting Instructions: Use of foam or water may cause frothing. Do not release runoff from fire control methods to sewers or waterways. Use a water supply to cool fire-exposed containers.
Fire-Fighting Equipment: Use self-contained breathing apparatus.



Section 6 – Accidental Release Matters

Spill/Leak Procedures: Stop spill at source. Confine spill by diking or impoundment. Remove sources of heat or ignition. Clean-up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing vapors or mists.
Small Spills: Stop spill at source if possible. Isolate and confine by diking, or similar method. Remove discharged material.
Large Spills:
Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.
Cleanup: Allow material to cool. Mix with inert absorbent material such as soil, sand, or oil dry, to stabilize.
Regulatory Requirements: Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29 CFR 1900.120). This material is not a hazardous waste as defined in RCRA. For disposal follow all federal, state, and local regulations regarding solid waste.

Section 7 – Handling and Storage

Handling Precautions: Use good hygiene practices to avoid contact with eyes, skin, and mouth.
Storage Requirements: Suggested storage temperature: 60.1°F – 90.0°F
Regulatory Requirements: None known.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls: Not applicable.
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Self-contained, positive-pressure breathing apparatus when used in confined or enclosed space or when exposure limits are exceeded or hydrogen sulfide is unknown or exceeds 20 ppm. Organic vapor respirators can be used with good ventilation when organic vapors are less than 1000 ppm or ten times permissible exposure limit, which ever is less. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes: procedures for selecting respirators; medical evaluation; fit testing; use in routine and emergency situations; cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators; adequate air quality, quantity and flow; training in respiratory hazards; training in use of respirators; evaluation of effectiveness of respiratory program.
Protective Clothing/Equipment: Wear protective gloves, boots, aprons, and gauntlets as need to prevent prolonged or repeated skin contact. Goggles and face shields should be used in areas where splashing may

ERGON ARMOR

Hawk-Seal/Hawk-Wrap

MSDS No. EA087

Date of Preparation: **March 19, 2010**

Revision No. 1

occur. Wear protective eyeglasses or safety goggles per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, or smoking.

Section 9 – Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: Black, low odor

Odor Threshold: No data

Vapor Pressure: Not determined

Vapor Density (Air = 1): Not determined

Formula Weight: Not determined

Density: Not determined

Specific Gravity (H₂O = 1, at 4°C): 1.33

pH: NA

Water Solubility: Nil

Other Solubilities: No data.

Boiling Point: Not determined

Freezing/Melting Point: No data.

Viscosity: No data.

Refractive Index: No data.

Surface Tension: No data.

% Volatile: Not determined

Evaporation Rate: Not determined

Section 10 – Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents

Conditions to Avoid: Excess heat and open flames.

Hazardous Decomposition Products: Primary decomposition products are carbon monoxide, carbon dioxide, and water. Combustion products may include sulfur oxides and hydrogen sulfide.

Section 11 – Toxicological Information

Eye Effects: Vapors may cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

Acute Inhalation Effects: Short Term Inhalation Limits (Kerosene): 2500 mg/m³ for 60 min.

Carcinogenicity: Not a known human carcinogen.

Teratogenicity: No data.

Chronic Effects: Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis.

Skin Effects: Causes smarting of the skin and first-degree burns on short exposure; may cause secondary burns on long exposure.

Acute Oral Effects: Rat, oral, LD₅₀: 5 to 15 g/kg

Mutagenicity: No data.

Section 12 – Ecological Information

Ecotoxicity: No data.

Environmental Fate:

Environmental Transport: No data.

Environmental Degradation: No data.

Soil Absorption/Mobility: No data.

Section 13 – Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: Solidified waste material should not be a hazardous waste under RCRA guidelines. Follow Federal, state, and local regulations for disposal of solid waste.

Container Cleaning and Disposal: Recommend using a non-hazardous solvent to remove the product. Follow Federal, state, and local regulations for disposal of the waste material, regardless of its waste classification.

ERGON ARMOR

MSDS No. EA087

Hawk-Seal/Hawk-Wrap

Date of Preparation: March 19, 2010

Revision No. 1

Section 14 – Transport Information

Shipping Name: Not Regulated	Packaging Authorizations:	Quantity Limitations:
Shipping Marking:	a) Exceptions:	a) Passenger, Aircraft, or Railcar:
Hazard Class:	b) Non-bulk Packaging:	b) Cargo Aircraft Only:
ID No.:	c) Bulk Packaging:	Vessel Stowage Requirements:
Packing Group:		a) Vessel Stowage:
Label:		b) Other:
Special Provisions (172.102):		

Section 15 – Regulatory Information

EPA Regulations:

RCRA

RCRA Hazardous Waste Number: Not listed.

RCRA Hazardous Waste Classification (40 CFR 261): Solidified waste material should not be a hazardous waste. However, waste material should be tested for the characteristic of ignitibility.

CERCLA

CERCLA: Not listed.

CERCLA Reportable Quantity (RQ): This material is not a listed hazardous substance and does not have a reportable quantity. However, if spilled into waters of the U.S., it may be reportable under the Clean Water Act.

SARA

SARA 311/312 Codes:	Acute	Yes
	Chronic	Yes
	Fire	No
	Pressure	No
	Reactivity	No

SARA Toxic Chemical: Not listed.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

OSHA Regulations

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): See Table in Section 2.

OSHA Specifically Regulated Substance: No

State Regulations:

Section 16 – Other Information

Revision Notes:

Additional Hazard Rating Systems: Canadian Disclosure List: Amorphous Silica

Disclaimer: ERGON ARMOR PROVIDES THIS INFORMATION FOR THE USER'S CONSIDERATION. EA BELIEVES THIS INFORMATION IS ACCURATE, BUT NOT ALL INCLUSIVE IN ALL CIRCUMSTANCES. USER SHOULD ENSURE THAT USER HAS CURENT DATA RELEVANT FOR ITS PURPOSES. NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY, FITNESS OR OTHERWISE IS GIVEN.