



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SP2000 Series Part A
Version # 01
Revision date 01-20-2011
CAS # Mixture
Manufacturer Ergon Armor
Division Memphis
Address PO Box 1639
 Jackson, MS 39215-1639
Contact Name Mary Ellen Snow
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Hours of Operation 8:00AM - 5:00PM
ERGON General Assistance 1 (800) 222 7122
CHEMTREC North America 1 (800) 424 9300 International 1 (703) 527 3887

2. Hazards Identification

Emergency overview Harmful in contact with eyes. Irritating to skin. Prolonged exposure may cause chronic effects.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.
Skin Irritating to skin. Avoid contact with the skin.
Inhalation May cause cancer by inhalation. Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.
Ingestion Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs Cardiac. Eyes. RESPIRATORY SYSTEM. Stomach.
Chronic effects Conjunctiva.
Signs and symptoms Corneal damage. Conjunctivitis. Irritation of eyes and mucous membranes.
Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
CARBON BLACK	1333-86-4	< 1
Non-hazardous components	CAS #	Percent
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4	1 - 5
2,3-EPOXYPROPYL NEODECANOATE	26761-45-5	0 - 10
PROPRIETARY INGREDIENTS	N/A	0 - 10
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN	25068-38-6	40 - 60
MINERAL FILLER	Mixture	40 - 60

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact

Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General advice

IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties

Containers or vessels exposed to sustained heat, such as in a fire situation, may have a sudden boil-over/explosion resulting from vaporization of water in the bottom of the vessel, known as a BLEVE (Boiling Liquid Expanding Vapor Explosion).

Extinguishing media

Suitable extinguishing media

Dry chemical powder. Carbon dioxide (CO₂). Alcohol foam.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Do not get water on spilled substance or inside containers. Dike far ahead of spill for later disposal. Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

Small Spills: Clean surface thoroughly to remove residual contamination. Absorb spill with vermiculite or other inert material.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not allow water to get into container because of violent reaction and possible flash fire. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.

Storage

Keep away from heat, sparks and open flame. Keep container tightly closed. Keep container dry. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Type

Value

CARBON BLACK (1333-86-4)

TWA

3.5000 mg/m³

U.S. - OSHA

Components

Type

Value

CARBON BLACK (1333-86-4)

PEL

3.5000 mg/m³

Personal protective equipment

Eye / face protection

Do not get in eyes. Chemical goggles are recommended.

Skin protection

Avoid contact with the skin. Wear suitable protective clothing.

General hygiene considerations

Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Not available.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

Physical state

Liquid.

Form

Liquid.

pH

Not available.

Melting point

Not available.

Freezing point

Not available.

Boiling point

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Specific gravity

Not available.

Relative density

Not available.

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

VOC

Not available.

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Conditions to avoid

Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials

Peroxides. Fluorine. Chlorine. Incompatible with oxidizing agents. This product may react with strong acids. This product may react with strong alkalis.

Hazardous decomposition products

Toxic gas. If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components

Test Results

CARBON BLACK (1333-86-4)

Acute Oral LD50 Rat: > 8000 mg/kg

* Estimates for product may be based on additional component data not shown.

Local effects

Irritating to skin. Contact may irritate or burn eyes.

Chronic effects

Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Carcinogenicity

Hazardous by OSHA criteria.

ACGIH Carcinogens

CARBON BLACK (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

CARBON BLACK (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

12. Ecological Information

Ecotoxicity

Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - Yes

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Australia

Australian Inventory of Chemical Substances (AICS)

No

Canada

Domestic Substances List (DSL)

No

Canada

Non-Domestic Substances List (NDSL)

No

China

Inventory of Existing Chemical Substances in China (IECSC)

No

Europe

European Inventory of Existing Commercial Chemical Substances (EINECS)

No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

CARBON BLACK (CAS 1333-86-4) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

CARBON BLACK (CAS 1333-86-4) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
 Health: 1*
 Flammability: 0
 Physical hazard: 2

NFPA ratings
 Health: 1
 Flammability: 0
 Instability: 0
 Special hazards: W

Issue date 01-20-2011