



**1. Product and Company Identification**

**Material name** SP2000 B  
**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  
**E-Mail** mary.snow@ergon.com  
**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** DANGER  
 Corrosive. Causes skin and eye burns. Irritating to respiratory system.

**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** Causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.

**Skin** Causes skin burns. Do not get this material in contact with skin.

**Inhalation** Causes burns. Irritating to respiratory system. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.

**Ingestion** Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Do not ingest.

**Signs and symptoms** Irritation of nose and throat.

**Potential environmental effects** May cause long-term adverse effects in the environment.

**3. Composition / Information on Ingredients**

<b>Hazardous components</b>	<b>CAS #</b>	<b>Percent</b>
TRIETHYLENETETRAMINE	112-24-3	1 - 5
BENZYL ALCOHOL	100-51-6	10 - 20
<b>Non-hazardous components</b>	<b>CAS #</b>	<b>Percent</b>
ETHYLENEDIAMINE	107-15-3	< 1
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	1 - 2.5
MIXED CYCLOALIPHATIC AMINES	Mixture	5 - 20
ALKYLATED PHENOLIC POLYAMINE	68413-28-5	10 - 20
Polyamidoamine	Mixture	30 - 50
Polyamide Resin	Mixture	30 - 50

## 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

Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

#### 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 immediately.

#### 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm.

### General advice

Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

### Flammable properties

Combustible by OSHA criteria. NFPA Rating Fire = 2. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.

### Extinguishing media

#### Suitable extinguishing media

Water. Dry powder. Carbon dioxide (CO<sub>2</sub>). Alcohol foam.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Protection of firefighters

#### Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

### Specific methods

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

### Hazardous combustion products

May include oxides of nitrogen.

## 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. Ventilate closed spaces before entering them. 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: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. 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 smoke. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get this material on clothing. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.

### Storage

The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

### Personal protective equipment

#### Eye / face protection

Do not get in eyes. Chemical goggles are recommended. Face-shield.

#### Skin protection

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Chemical resistant gloves.

#### Respiratory protection

Do not breathe dust/fume/gas/mist/vapors/spray. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

#### General hygiene considerations

Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. When using, do not eat, drink or smoke. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

### Appearance

Liquid.

### Color

Golden to Light Amber

### Odor

Amine-like. Ammoniacal.

### Odor threshold

Not available.

### Physical state

Liquid.

### Form

Liquid.

### pH

Alkaline

### 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

0.95

### Relative density

Not available.

### Solubility (water)

Partial

### Partition coefficient (n-octanol/water)

Not available

### Auto-ignition temperature

Not available.

### Decomposition temperature

Not available.

### VOC

Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal temperature conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Peroxides. Strong acids, alkalis and oxidizing agents. Fluorine. Chlorine.
<b>Hazardous decomposition products</b>	If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

## 11. Toxicological Information

### Toxicological data

#### Product

SP2000 B (Mixture)

#### Test Results

Acute Dermal LD50 Rabbit: 11801 mg/kg estimated  
Acute Inhalation LC100 Rat: 1235 mg/l estimated  
Acute Inhalation LC50 Rat: 6174 mg/l estimated  
Acute Oral LD50 Mouse: 9755 mg/kg estimated  
Acute Oral LD50 Rabbit: 11978 mg/kg estimated  
Acute Oral LD50 Rat: 7290 mg/kg estimated  
Acute Other LD50 Guinea pig: 2470 mg/kg estimated  
Acute Other LD50 Mouse: 1947 mg/kg estimated

#### Components

BENZYL ALCOHOL (100-51-6)

#### Test Results

Acute Dermal LD50 Guinea pig:  $\leq 5$  ml/kg  
Acute Dermal LD50 Rabbit: 2000 mg/kg  
Acute Inhalation LC100 Rat: 200 - 300 mg/l 8.00 Hours  
Acute Inhalation LC50 Rat: 1000 mg/l 8.00 Hours  
Acute Oral LD50 Mouse: 1580 mg/kg  
Acute Oral LD50 Rabbit: 1940 mg/kg  
Acute Oral LD50 Rat: 1230 - 3100 mg/kg  
Acute Other LD50 Guinea pig:  $\geq 400$  mg/kg  
Acute Other LD50 Mouse: 324 mg/kg  
Acute Other LD50 Mouse:  $\leq 0.499999$  ml/kg  
Acute Other LD50 Rat: 53 mg/kg

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

<b>Acute effects</b>	Causes burns.
<b>Local effects</b>	Irritating to respiratory system.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Skin corrosion/irritation</b>	Hazardous by OSHA criteria.

## 12. Ecological Information

### Ecotoxicological data

#### Product

SP2000 B (Mixture)

#### Test Results

LC50 Fish: 993 mg/l 96.00 Hours estimated

#### Components

BENZYL ALCOHOL (100-51-6)

ETHYLENEDIAMINE (107-15-3)

#### Test Results

LC50 Bluegill (*Lepomis macrochirus*): 10 mg/l 96.00 Hours  
LC50 Fathead minnow (*Pimephales promelas*): 98.6 - 131.6 mg/l 96.00 Hours

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

<b>Ecotoxicity</b>	Contains a substance which causes risk of hazardous effects to the environment.
<b>Environmental effects</b>	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 - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Water Act (CWA)** Hazardous substance

#### 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
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** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

BENZYL ALCOHOL (CAS 100-51-6)	Listed.
TRIETHYLENETETRAMINE (CAS 112-24-3)	Listed.

### 16. Other Information

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

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

**NFPA ratings**

Health: 2  
Flammability: 1  
Instability: 0

**Issue date**

01-20-2011