SAFETY DATA SHEET



1. Identification

Product identifier SP2XXX Series Part B Coating and Lining (All Colors)

Other means of identification Not available.

Synonym(s) SP2000, SP2030, SP2050, SP2110, SP2400, SP2500, SP2530, SP2550, SP2600, SP2900, EL2010,

EL2310, EL2340, EL2350, EL2510, EL2540, EL2550

Recommended useNot available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name Ergon Armor

Address 1655 Harbor Avenue

Memphis, TN 38113

USA

Telephone 1-800-222-7122
Website www.ergonarmor.com
sds@ergon.com

Emergency 24-hour

CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

phone number

Information on operation

8:00 a.m. to 5:00 p.m.

hours

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2
Sensitization, respiratory Category 1
Sensitization, skin Category 1
Specific target organ toxicity, single exposure Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified. **OSHA defined hazards** Not classified.

Label elements



Signal word Warning

Hazard statement Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. **Prevention** Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.

Response Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse. IF exposed

or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

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easy to do. Continue rinsing.

Storage Store in accordance with local/regional/national regulations.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Material name: SP2XXX Series Part B Coating and Lining (All Colors)
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Chemical name	Common name and synonyms	CAS number	%
BENZYL ALCOHOL		100-51-6	0 - 20
TRIETHYLENETETRAMINE		112-24-3	1 - 6
3-AMINOPROPYLTRIETHOXYSILANE		919-30-2	0 - 3
ETHYLENEDIAMINE		107-15-3	0 - 1
Other components below reportable leve	ls		59.84

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Wash

contaminated clothing before reuse.

Eye contact Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation

persists after washing.

Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that Ingestion

Direct contact with eyes may cause temporary irritation.

stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel

unwell.

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special treatment needed

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for

firefighters

Move containers from fire area if you can do so without risk.

Fire-fighting equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Avoid prolonged exposure. Observe good industrial hygiene practices.

Avoid discharge into drains, water courses or onto the ground.

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Type **Components** Value ETHYLENEDIAMINE (CAS PEL 25 mg/m3 107-15-3) 10 ppm **US. ACGIH Threshold Limit Values Value** Components **Type** ETHYLENEDIAMINE (CAS TWA 10 ppm 107-15-3) **US. NIOSH: Pocket Guide to Chemical Hazards** Value Components Type ETHYLENEDIAMINE (CAS **TWA** 25 mg/m3 107-15-3) 10 ppm **US. AIHA Workplace Environmental Exposure Level (WEEL) Guides** Components **Type Value** BENZYL ALCOHOL (CAS **TWA** 44.2 mg/m3 100-51-6)

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

(CAS 112-24-3)

TRIETHYLENETETRAMINE

US ACGIH Threshold Limit Values: Skin designation

ETHYLENEDIAMINE (CAS 107-15-3) Can be absorbed through the skin.

TWA

US WEEL Guides: Skin designation

TRIETHYLENETETRAMINE (CAS 112-24-3) Can be absorbed through the skin.

Appropriate engineering Provide adequate ventilation, including appropriate local extraction, to ensure that the defined

controls occupational exposure limit is not exceeded. Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style

gloves.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

10 ppm

1 ppm

6 mg/m3

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and considerations

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

9. Physical and chemical properties

Appearance Liquid. **Physical state** Liquid. Form Liquid.

Color Golden to Light Amber Odor Ammoniacal, Amine-like,

Odor threshold Not available. Alkaline

Melting point/freezing point 4.64 °F (-15.2 °C) estimated Initial boiling point and 401.54 °F (205.3 °C) estimated

boiling range

Flash point > 199.4 °F (> 93.0 °C) estimated

Evaporation rate Not available.

Material name: SP2XXX Series Part B Coating and Lining (All Colors)

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower 3 % estimated

(%)

Flammability limit -

upper (%)

10 % estimated

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Partial

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature 640 °F (337.78 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Specific gravity 0.95

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Species

Skin contactCauses skin irritation. **Eye contact**Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product

	- P	1 000 1100 0110
SP2XXX Series Part B Coa	ating and Lining (All Colors) (CAS Mixture)	
Acute		
Dermal		
LD50	Rabbit	5757.0889 mg/kg estimated
Inhalation		
LC50	Rat	2942.2148 mg/l, 8 Hours estimated
Oral		
LD50	Mouse	4648.6997 mg/kg estimated
	Rabbit	5707.897 mg/kg estimated
	Rat	3548.4497 mg/kg estimated

Test Results

Product	Species	Test Results	
Other			
LD50	Mouse	2691.874 mg/kg estimated	
	Rat	894.0341 mg/kg estimated	
Components	Species	Test Results	
BENZYL ALCOHOL (CAS 100-51-6)			
Acute			
Dermal			
LD50	Rabbit	2000 mg/kg	
Inhalation			
LC50	Rat	1000 mg/l, 8 Hours	
Oral			
LD50	Mouse	1580 mg/kg	
	Rabbit	1940 mg/kg	
	Rat	1230 - 3100 mg/kg	
Other			
LD50	Mouse	950 mg/kg	
	Rat	314 mg/kg	
ETHYLENEDIAMINE (CAS 107-15-3)			
Acute			
Dermal			
LD50	Rabbit	730 mg/kg	
Oral			
LD50	Guinea pig	470 mg/kg	
	Rat	500 mg/kg	
Other			
LD50	Mouse	200 mg/kg	
	Rat	76 mg/kg	
	hand or additional accordance data with the con-		

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

Skin corrosion/irritation Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product

contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the

normal routes of exposure are unavailable.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

Product		Species	Test Results
SP2XXX Series Part B	Coating and Lining	(All Colors) (CAS Mixture)	
Fish	LC50	Fish	474.4284 mg/l, 96 hours estimated
Components		Species	Test Results
BENZYL ALCOHOL (CA	AS 100-51-6)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
ETHYLENEDIAMINE (CAS 107-15-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	98.6 - 131.6 mg/l, 96 hours

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

BENZYL ALCOHOL 1.1

ETHYLENEDIAMINE -2.04, at pH 13

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions When this product as supplied is to be discarded as waste, it does not meet the definition of a

RCRA waste under 40 CFR 261.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues /

Dispose of in accordance with local regulations. Empty containers or liners may retain some product unused products

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

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emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ETHYLENEDIAMINE (CAS 107-15-3) Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

ETHYLENEDIAMINE (CAS 107-15-3) 5000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
•					

ETHYLENEDIAMINE 107-15-3 5000 10000 lbs

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

ETHYLENEDIAMINE (CAS 107-15-3) **Safe Drinking Water Act** Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

BENZYL ALCOHOL (CAS 100-51-6) ETHYLENEDIAMINE (CAS 107-15-3) TRIETHYLENETETRAMINE (CAS 112-24-3)

US. New Jersey Worker and Community Right-to-Know Act

ETHYLENEDIAMINE (CAS 107-15-3) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

BENZYL ALCOHOL (CAS 100-51-6) ETHYLENEDIAMINE (CAS 107-15-3) TRIETHYLENETETRAMINE (CAS 112-24-3)

US. Rhode Island RTK

ETHYLENEDIAMINE (CAS 107-15-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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)	Yes
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	Yes

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 04-01-2015

Version # 01

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision Information Product and Company Identification: Synonyms

Composition / Information on Ingredients: Undisclosed Ingredient Statement

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

Material name: SP2XXX Series Part B Coating and Lining (All Colors)

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