## SAFETY DATA SHEET



#### 1. Identification

**Product identifier** NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B

Other means of identification None.

Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc. **Company Name** 

**Address** 2829 Lakeland Drive Jackson, MS 39232

After hours telephone

number

**Normal work hours** telephone number

1-877-982-7667

1-800-222-7122

Website www.ergonarmor.com E-mail sds@ergon.com

**Emergency 24-hour** telephone number

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

**Information on operation** 

hours

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

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 2 Sensitization, skin Category 1 Germ cell mutagenicity Category 2 Carcinogenicity Category 2 Specific target organ toxicity, repeated Category 1

exposure

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

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected

of causing genetic defects. May cause damage to organs through prolonged or repeated

exposure.

**Precautionary statement** 

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear

respiratory protection.

**Response** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this

SDS. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Storage** Store locked up.

**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**

Chemical name	Common name and synonyms	CAS number	%
CYCLOHEXANAMINE, 4,4'-METHYLENEBIS-		1761-71-3	20 - 30
3-AMINOPROPYLTRIETHOXYSILAN E		919-30-2	1 - 10
PHENOL		108-95-2	1 - 10
TRIENTINE		112-24-3	1 - 10
Other components below reportable	levels		71.01

#### 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.

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

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 a

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

medical attention and special treatment needed Treat symptomatically.

**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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from** During fire, gases hazardous to health may be formed. **the chemical** 

Special protective equipment and precautions for

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

firefighters Fire fighting equipment/instructions

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

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

#### 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.

**Environmental precautions** Avoid discharge into dr

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

## 7. Handling and storage

**Precautions for safe handling** 

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	
PHENOL (CAS 108-95-2)	PEL	19 mg/m3	
		5 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
PHENOL (CAS 108-95-2)	TWA	5 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
PHENOL (CAS 108-95-2)	Ceiling	60 mg/m3	
		15.6 ppm	
	TWA	19 mg/m3	
		5 ppm	
US. Workplace Environmental Ex	cposure Level (WEEL) Guides		
Components	Туре	Value	
TRIENTINE (CAS 112-24-3)	TWA	6 mg/m3	

### **Biological limit values**

**ACGIH Biological Exposure Indices** 

1 ppm

#### **Exposure guidelines**

**US - California OELs: Skin designation** 

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies** 

PHENOL (CAS 108-95-2) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

PHENOL (CAS 108-95-2) Danger of cutaneous absorption

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation** 

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

Material name: NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B
5771 Version #: 03 Revision date: 06-12-2023 Issue date: 06-12-2020

<sup>\* -</sup> For sampling details, please see the source document.

**US WEEL Guides: Skin designation** 

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

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

Can be absorbed through the skin. PHENOL (CAS 108-95-2)

Appropriate engineering

controls

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

occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and 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** Paste. Color **Varies** 

Odor Amine-like, Ammoniacal,

Odor threshold Not available. Alkaline pН Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Flash point Not available. estimated

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

**Explosive limit - lower** 

(%)

Not available, estimated

**Explosive limit - upper** 

(%)

Not available, estimated

786.28 hPa estimated Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) **Partial** 

**Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Not available.

Other information

**Density** 12.29 lb/gal estimated

Specific gravity 1.4758

# 10. Stability and reactivity

Reactivity The 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

reactions

Hazardous polymerization does not occur.

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

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact** Causes severe skin burns and eye damage.

**Eye contact**Causes serious eye damage. **Ingestion**May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Contact with this material will cause burns to the skin, eyes and mucous membranes.

### Information on toxicological effects

Acute toxicity

Components Species Test Results

3-AMINOPROPYLTRIETHOXYSILANE (CAS 919-30-2)

Acute Inhalation

LC50 - > 7.35 mg/l, 4 Hours

CYCLOHEXANAMINE, 4,4'-METHYLENEBIS- (CAS 1761-71-3)

<u>Acute</u>

Oral

LD50 Rat 380 mg/kg

PHENOL (CAS 108-95-2)

Acute Dermal

LD50 Rat 669 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** Causes severe skin burns.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**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.

## IARC Monographs. Overall Evaluation of Carcinogenicity

PHENOL (CAS 108-95-2)

3 Not classifiable as to carcinogenicity to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity Not classified.

- single exposure

This product is not expected to cause reproductive or developmental effects

Material name: NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Specific target organ toxicity

May cause damage to organs through prolonged or repeated exposure.

- repeated exposure

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.

**Test Results Product Species** 

NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B

**Aquatic** 

Crustacea EC50 Daphnia 578.6824, 48 hours Fish LC50 420.0247, 96 hours Fish

Acute

Crustacea EC50 Daphnia 61.6676, 48 hours estimated Fish LC50 Fish 99.36, 96 hours estimated

**Components Species Test Results** 

PHENOL (CAS 108-95-2)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) >= 4.24 - <= 10.7 mg/l, 48 hours

Fish LC50 Asiatic knifefish (Notopterus notopterus) 6.85, 96 hours

**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)

**PHENOL** 1.46

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.

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

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

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

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

Material name: NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

PHENOL (CAS 108-95-2) Listed.

**SARA 304 Emergency release notification** 

Phenol (CAS 108-95-2) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

**Chemical name CAS** number Reportable **Threshold Threshold Threshold** quantity planning quantity planning planning (pounds) (pounds) quantity, lower quantity, upper value (pounds) value (pounds) **PHENOL** 108-95-2 1000 500 10000

SARA 311/312 Hazardous Yes

chemical

**Classified hazard** categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
PHENOL	108-95-2	1 - 10	

## Other federal regulations

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

PHENOL (CAS 108-95-2)

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

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

PHENOL (CAS 108-95-2) Low priority

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

PHENOL (CAS 108-95-2)

**California Proposition 65** 

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

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Material name: NOVOCOAT™ EP4900 CERAMIC CARBIDE PART B

SDS US

Country(s) or regionInventory nameOn inventory (yes/no)\*JapanInventory of Existing and New Chemical Substances (ENCS)Yes

Korea Existing Chemicals List (ECL)

New Zealand

New Zealand Inventory

Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS

Taiwan Chemical Substance Inventory (TCSI)

Yes

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

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

 Issue date
 06-12-2020

 Revision date
 06-12-2023

Version # 03

country(s).

NFPA ratings Health: 3 Flammability: 1

Instability: 0

**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: Alternate Trade Names

Composition / Information on Ingredients: Disclosure Overrides Transport Information: Material Transportation Information

Regulatory Information: United States

Regulatory information: California Proposition 65

HazReg Data: North America

Material name: NOVOCOAT $^{\text{\tiny TM}}$  EP4900 CERAMIC CARBIDE PART B