# SAFETY DATA SHEET



## 1. Identification

Product identifier NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

Other means of identification None.

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

Manufacturer/Importer/Supplier/Distributor information

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

Address 2829 Lakeland Drive Jackson, MS 39232

USA

1-800-222-7122

1-877-982-7667

After hours telephone

number

Normal work hours

telephone number

Website www.ergonarmor.com

E-mail sds@ergon.com

**Emergency 24-hour** telephone number

**Information on operation** 8:00 a.m. to 5:00 p.m.

hours

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

# 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Skin corrosion/irritation Category 1

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

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. Suspected of

causing genetic defects. Suspected of damaging fertility or the unborn child. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment see Section 4 of this SDS. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	%
QUARTZ		14808-60-7	15 - 25
1,3-BENZENEDIMETHANAMINE		1477-55-0	1 - 10
COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED		135108-88-2	1 - 10
CYCLOHEXANAMINE, 4,4'-METHYLENEBIS-		1761-71-3	1 - 10
PHENOL		108-95-2	1 - 10
TRIETHYLENETETRAMINE		112-24-3	1 - 10
PHENOL, 4-NONYL-, BRANCHED		84852-15-3	< 1
Other components below reportable	e levels		57.581

## 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a physician if symptoms develop or persist.

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

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes, Remove contact lenses, if **Eve contact** 

present and easy to do. Continue rinsing. Get medical attention immediately.

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

serious eye damage. May cause an allergic skin reaction.

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

Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. Causes

unwell.

Most important symptoms/effects, acute and

delayed Indication of immediate

medical attention and special treatment needed

**General information** 

Treat symptomatically.

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

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

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 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	Contaminants (29 CFR 1910.1000 Type	Value	Form
PHENOL (CAS 108-95-2)	PEL	19 mg/m3	
		5 ppm	
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 CFR 1910	0.1000)		
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values	S		
Components	Туре	Value	Form
1,3-BENZENEDIMETHANAM INE (CAS 1477-55-0)	Ceiling	0.018 ppm	
PHENOL (CAS 108-95-2)	TWA	5 ppm	
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	Form
1,3-BENZENEDIMETHANAM INE (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
PHENOL (CAS 108-95-2)	Ceiling	60 mg/m3	
		15.6 ppm	
	TWA	19 mg/m3	
		5 ppm	
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
US. Workplace Environmental Exp	oosure Level (WEEL) Guides		
Components	Туре	Value	
TRIETHYLENETETRAMINE (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	

#### **Biological limit values**

Components	Value	Determinant	Specimen	Sampling Time	
PHENOL (CAS 108-95-2)	250 mg/g	Phenol with	Creatinine in	*	
		hvdrolysis	urine		

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

#### **Exposure guidelines**

#### **US - California OELs: Skin designation**

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin. 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** 

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin. PHENOL (CAS 108-95-2) Can be absorbed through the skin.

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

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Danger of cutaneous absorption PHENOL (CAS 108-95-2) Danger of cutaneous absorption

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin. PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US WEEL Guides: Skin designation** 

TRIETHYLENETETRAMINE (CAS 112-24-3)

Can be absorbed through the skin.

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

PHENOL (CAS 108-95-2)

Can be absorbed through the skin.

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

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

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 Solid.
Form Liquid.

Color Golden to Light Amber

Odor Ammoniacal, Amine-like.

Odor threshold Not available.

pH Alkaline

**Melting point/freezing point** 4.64 °F (-15.2 °C) estimated **Initial boiling point and** 212 °F (100 °C) estimated

boiling range

Flammability (solid, gas)

Flash point

Not available.

174.2 °F (79.0 °C) estimated

**Evaporation rate** Not available.

**Upper/lower flammability or explosive limits** 

**Explosive limit - lower** 

(%)

3 % estimated

**Explosive limit - upper** 

(%)

10 % estimated

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

Solubility(ies)

**Solubility (water)** Partial

Partition coefficient

**Auto-ignition temperature** 

Not available.

(n-octanol/water)

640 °F (337.78 °C) estimated

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

Other information

**Density** 11.15 lb/gal estimated

## 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**Hazardous polymerization does not occur.

reactions

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition** 

**Conditions to avoid** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactCauses severe skin burns and eye damage.

**Eye contact** Causes serious eye damage.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Contact with this material will cause burns to the skin, eyes and mucous membranes. Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. Causes serious

eye damage.

## Information on toxicological effects

**Acute toxicity** 

Product Species Test Results

NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

Acute Inhalation

LC50 Rat 31060 mg/l, 8 Hours

Components Species Test Results

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

**Acute** 

Oral

LD50 Rat 380 mg/kg

PHENOL (CAS 108-95-2)

<u>Acute</u>

Dermal

LD50 Rat 669 mg/kg

Components Species Test Results

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3)

<u>Acute</u> Dermal

LD50 Rabbit 2140 mg/kg

Oral

LD50 Rat 1600 mg/kg

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

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

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

**Skin sensitization** Causes 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.

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7) Cancer

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

QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

May cause damage to organs through prolonged or 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.

Product Species Test Results

NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

**Aquatic** 

 Crustacea
 EC50
 Daphnia
 7.5229, 48 hours

 Fish
 LC50
 Fish
 23.8117, 96 hours

Acute

Crustacea EC50 Daphnia 7.0704, 48 hours estimated Fish LC50 Fish 3.2978, 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

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

Components **Species Test Results** 

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3)

**Aquatic** 

Acute

Crustacea EC50 Clam (Mulinia lateralis) 0.0379, 48 hours LC50 Fish Winter flounder (Pleuronectes 0.017, 96 hours

americanus)

**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)

1.46 **PHENOL** PHENOL, 4-NONYL-, BRANCHED 5.71

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

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

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 /

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

## 15. Regulatory information

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

**Toxic Substances Control Act (TSCA)** 

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

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) 1.0 % One-Time Export Notification only.

**TSCA Chemical Action Plans, Chemicals of Concern** 

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

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

PHENOL (CAS 108-95-2) Listed.

**SARA 304 Emergency release notification** 

QUARTZ (CAS 14808-60-7)

Phenol (CAS 108-95-2) 1000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

lung effects

Cancer

immune system effects

kidney effects

Material name: NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

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

## 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** 

Skin corrosion or irritation categories Serious eye damage or eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity Reproductive toxicity

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) QUARTZ (CAS 14808-60-7)

#### California Proposition 65



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

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

QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

## **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		
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes		
Korea	Existing Chemicals List (ECL)	Yes		
New Zealand	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		
Taiwan	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)				

Material name: NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

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

 Issue date
 06-12-2020

 Revision date
 10-06-2022

Version # 03

**NFPA ratings** Health: 2

Flammability: 0 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** This document has undergone significant changes and should be reviewed in its entirety.