SAFETY DATA SHEET



1. Identification

Product identifier NOVOCOAT™ EP3900 MACHINABLE PASTE PART B

Other means of identification None.

Recommended useNot 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

After hours telephone

number

1-800-222-7122

Normal work hours

telephone number

1-877-982-7667

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

Emergency 24-hour

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

telephone 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, skin Category 1
Germ cell mutagenicity Category 2
Carcinogenicity Category 1A
Reproductive toxicity Category 2
Specific target organ toxicity, repeated Category 1

exposure

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

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not breathe dust or mist. 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. In case of inadequate ventilation wear respiratory protection.

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Response If swallowed: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this SDS.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.

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
4,4'-METHYLENEBIS(CYCLOHEXYLA MINE)		1761-71-3	5 - 15
TRIETHYLENETETRAMINE		112-24-3	1 - 10
BENZYL ALCOHOL		100-51-6	0 - 10
[3-(Aminomethyl)phenyl]methanami ne		1477-55-0	1 - 5
PHENOL		108-95-2	1 - 5
PHENOL, 4-NONYL-, BRANCHED		84852-15-3	< 1
Other components below reportable I	evels		58.90102

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 and

delayed

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

Unsuitable extinguishing

media

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

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

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.

SDS US

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

US. OSHA Table Z-1 Limits for Air Co Components	Туре	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 1910.10	000)		
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
[3-(Aminomethyl)phenyl]me thanamine (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
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 Chemica	ıl Hazards		
Components	Туре	Value	Form
[3-(Aminomethyl)phenyl]me thanamine (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 Expos	ure Level (WEEL) Guides		
Components	Туре	Value	
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3	

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US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value
		10 ppm
TRIETHYLENETETRAMINE (CAS 112-24-3)	TWA	6 mg/m3

1 ppm

Biological limit values

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

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

[3-(Aminomethyl)phenyl]methanamine (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

[3-(Aminomethyl)phenyl]methanamine (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

[3-(Aminomethyl)phenyl]methanamine (CAS 1477-55-0) Can be absorbed through the skin. PHENOL (CAS 108-95-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

[3-(Aminomethyl)phenyl]methanamine (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 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 quantilet 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

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

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 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

boiling range

212 °F (100 °C) estimated

174.2 °F (79.0 °C) estimated Flash point

Evaporation rate Not available. 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.

Not available. Vapor pressure Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) **Partial**

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature 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

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

reactions

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

Strong oxidizing agents. **Incompatible materials**

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

Eve contact Causes serious eye damage.

Ingestion May be harmful if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

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BENZYL ALCOHOL (CAS 100-51-6)

<u>Acute</u> Dermal

LD50 Rabbit 2000 mg/kg

Inhalation

LC50 Rat 1000 mg/l, 8 Hours

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 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 1910.1001-1052)

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 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

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

EcotoxicityThe 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 mg/l, 48 hours estimated
Fish LC50 Fish 23.8117 mg/l, 96 hours estimated

Components Species Test Results

BENZYL ALCOHOL (CAS 100-51-6)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 10 mg/l, 96 hours

PHENOL (CAS 108-95-2)

Aquatic

Crustacea EC50 Water flea (Daphnia obtusa) 4.7 - 6.4 mg/l, 48 hours
Fish LC50 Asiatic knifefish (Notopterus notopterus) 8 - 8.25 mg/l, 96 hours

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

Aquatic

Crustacea EC50 Clam (Mulinia lateralis) 0.0379 mg/l, 48 hours

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

 Components
 Species
 Test Results

 Fish
 LC50
 Winter flounder (Pleuronectes americanus)
 0.017 mg/l, 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)

BENZYL ALCOHOL 1.1
PHENOL 1.46
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

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 codeThe 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).

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

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)

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

PHENOL (CAS 108-95-2) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

QUARTZ (CAS 14808-60-7) Cancer

lung effects

immune system effects

kidney effects

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^{*} 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 quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Ī	PHENOL	108-95-2	1000		500	10000

SARA 311/312 Yes

Hazardous chemical

Classified hazard Combustible dust

categories Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Germ cell mutagenicity Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	wt.	
PHENOL	108-95-2	1 - 5	_	

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

California Proposition 65



WARNING: 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.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

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

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)

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)	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

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 06-12-2020 **Revision date** 10-22-2021

Version # 02

NFPA ratings Health: 2

Flammability: 2 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 Hazard(s) identification: Response

Hazard(s) identification: Hazard statement

Composition / Information on Ingredients: Disclosure Overrides

GHS: Classification

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