## SAFETY DATA SHEET



## 1. Identification

Product identifier NOVOCOAT™ HF1200 EPOXY 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

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 1B

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**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.

**Precautionary statement** 

**Prevention** 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.

**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/shower. IF INHALED: Remove to fresh air and keep at rest in a position 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/doctor. If skin irritation or rash 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.

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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	%
4,4'-ISOPROPYLIDENEDIPHENOL		80-05-7	15 - 25
[3-(Aminomethyl)phenyl]methanam ne	·	1477-55-0	10 - 20
PHENOL, 4-NONYL-, BRANCHED		84852-15-3	10 - 20
BENZYL ALCOHOL		100-51-6	5 - 15
Other components below reportable	levels		40

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 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. 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. Call a physician or poison control center immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.

Wash clothing separately before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing, Call a physician or poison

control center immediately.

**Ingestion** Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

> the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. 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.

Most important

symptoms/effects, acute and

delayed

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

**Indication of immediate** medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Oxygen, if needed. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

**General information** 

In case of shortness of breath, give oxygen. Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim warm. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing

media

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

Specific hazards arising from

the chemical

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

Special protective equipment and precautions for

firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause

environmental damage.

**Specific methods** General fire hazards In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

No unusual fire or explosion hazards noted.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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 in original containers for re-use.

#### **Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe mist or vapor. Do not breathe dust or mist. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Handle and open container with care. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

CAUTION Store locked up. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

Value

Value

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

-:-				
US.	ACGIH	Threshold	Limit	Values

[3-(Aminomethyl)phenyl]me thanamine (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
US. NIOSH: Pocket Guide to Ch Components	nemical Hazards Type	Value	
[3-(Aminomethyl)phenyl]me	Ceiling	0.1 mg/m3	

# US. Workplace Environmental Exposure Level (WEEL) Guides Components Type

	- 7 P -		
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3	

10 ppm

## **Biological limit values**

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

# **Exposure guidelines**

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

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

**Type** 

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

[3-(Aminomethyl)phenyl]methanamine (CAS 1477-55-0) 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.

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

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

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**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** Chemical goggles and face shield are recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Chemical/solvent resistant gloves are recommended. If contact with forearms is likely, use

gauntlet-style gloves.

**Respiratory protection** If in spray application, respiratory protection should include at a minimum a fullface air purifying

> respirator (APR) with combination particulate (P100) and organic vapor (OV) cartridges. A full-face APR has an assigned protection factor (APF) of 50, as designated by OSHA. As a substitute, a PAPF

with a loose-fitting hood could be used as respiratory protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Do not get in eyes. Do not get this material on clothing. Do not get this material in contact with skin. 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. Contaminated work clothing should not be allowed out of the

workplace.

# 9. Physical and chemical properties

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

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

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

boiling range

200.0 °F (93.3 °C)

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

Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Not available. 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** 8.50 lb/gal estimated

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Specific gravity 1.02

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport

**Chemical stability** Stable at normal conditions.

**Possibility of hazardous** 

reactions

Hazardous polymerization can occur with elevated temperatures.

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

**Incompatible materials** Acids. Alkaline metals. Amines. Peroxides. Fluorine. Chlorine. Phenols. Strong acids, alkalies and

oxidizing agents.

**Hazardous decomposition** 

products

Toxic gas. If product is burned hazardous gases such as oxides of carbon and nitrogen and various

hydrocarbons may be produced. Upon combustion, oxides of chlorine may be released.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected

**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

Irritation of eyes and mucous membranes.

## Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Acute

Oral

LD50 Rat 3300 mg/kg

BENZYL ALCOHOL (CAS 100-51-6)

**Acute** 

**Dermal** 

LD50 Rabbit 2000 mg/kg

**Inhalation** 

LC50 Rat 1000 mg/l, 8 Hours

**Skin corrosion/irritation** Irritating and may cause redness and pain.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Causes severe skin burns.

**Germ cell mutagenicity**No 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.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

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

Not listed.

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

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** 

Product

Not available.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life. Components of this product are hazardous to aquatic life. Accumulation in

**Test Results** 

aquatic organisms is expected.

**Species** NOVOCOAT™ HF1200 EPOXY PART B Aquatic

EC50 0.2513 mg/l, 48 hours estimated Crustacea Daphnia

Components Species **Test Results** 

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 9.2 - 11.4 mg/l, 48 hours LC50 Fathead minnow (Pimephales promelas) 3.6 - 5.4 mg/l, 96 hours Fish

BENZYL ALCOHOL (CAS 100-51-6)

Aquatic

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

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

Aquatic

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

4,4'-ISOPROPYLIDENEDIPHENOL 3.32 BENZYL ALCOHOL 1.1 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** Contract with a disposal operator licensed by the Law on Disposal and Cleaning. This material and

its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial

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). Not applicable.

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. Offer rinsed packaging material to local recycling facilities.

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## 14. Transport information

#### DOT

UN number UN2735

**UN proper shipping name** Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s. (metaxylenediamine),

MARINE POLLUTANT

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III
Environmental hazards

Marine pollutant Yes

**Special precautions for** Not available.

user

**Special provisions** IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

**IATA** 

**UN number** UN2735

**UN proper shipping name** Amines, liquid, corrosive, n.o.s. (metaxylenediamine)

Not available.

Transport hazard class(es)
Class

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

Special precautions for

user

Other information

**Passenger and cargo** Allowed with restrictions.

aircraft

**Cargo aircraft only** Allowed with restrictions.

**IMDG** 

UN number UN2735

UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(metaxylenediamine), MARINE POLLUTANT

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards

Marine pollutantYesEmSF-A, S-BSpecial precautions forNot available.

user

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

DOT



#### IATA; IMDG



#### Marine pollutant



## 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/SARA Hazardous Substances - Not applicable.

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** 

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Bisphenol A Action Plan

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

Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

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

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312

Yes

**Hazardous chemical** 

**Classified hazard** Skin corrosion or irritation

categories

Serious eye damage or eye irritation Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
4,4'-ISOPROPYLIDENEDIPHENOL	80-05-7	15 - 25	
PHENOL, 4-NONYL-, BRANCHED	8 <del>4</del> 852-15-3	10 - 20	

## Other federal regulations

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

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

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

Not regulated.

**Safe Drinking Water Act** Not regulated.

(SDWA)

## **US state regulations**

## **California Proposition 65**



Australia

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/Female reproductive toxin

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7) Listed: May 11, 2015

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

Australian Inventory of Chemical Substances (AICS)

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

**Inventory name** 

#### **International Inventories**

Country(s) or region

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

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

**Issue date** 10-30-2020 **Revision date** 10-29-2021

Version #

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

NFPA ratings Health: 3

Flammability: 0 Instability: 0

References EPA: AOUIRE database

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** Information for this material safety data sheet was obtained from sources considered technically

> accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained

according to the mandatory requirements of OSHA.

**Revision information** Physical & Chemical Properties: Multiple Properties

GHS: Classification

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On inventory (yes/no)\*

Yes

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).