# SAFETY DATA SHEET



# 1. Identification

Product identifier	PENNTROWEL EPOXY PRIMER RESIN		
Other means of identification	None.		
Recommended use	Not available.		
<b>Recommended restrictions</b>	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 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 Cate	
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer.
Precautionary statement	
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention.

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	None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN		25068-38-6	80 - 95
BUTYL GLYCIDYL ETHER		2426-08-6	10 - 15
EPICHLOROHYDRIN		106-89-8	1 - 5

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

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
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. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medica advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media	Foam. 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 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.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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.
Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. 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. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	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. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limit Components	Type	Value
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	PEL	270 mg/m3
		50 ppm
EPICHLOROHYDRIN (CAS 106-89-8)	PEL	19 mg/m3
		5 ppm
US. ACGIH Threshold Lim	nit Values	
Components	Туре	Value
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	TWA	3 ppm
EPICHLOROHYDRIN (CAS 106-89-8)	TWA	0.5 ppm
US. NIOSH: Pocket Guide	e to Chemical Hazards	
Components	Туре	Value
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	Ceiling	30 mg/m3
		5.6 ppm
logical limit values	No biological exposure limits noted for the ingredient(s).	
oosure guidelines		
US - California OELs: Skir	n designation	
EPICHLOROHYDRIN (CA	AS 106-89-8) <b>: Skin designation applies</b>	Can be absorbed through the skin.
EPICHLOROHYDRIN (CA	,	Skin designation applies.
US - Tennessee OELs: Ski	-	
EPICHLOROHYDRIN (CA	AS 106-89-8)	Can be absorbed through the skin.

# Material name: PENNTROWEL EPOXY PRIMER RESIN

6960 Version #: 01 Issue date: 02-19-2020

US ACGIH Threshold Limit Values: Skin designation			
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)		Can be absorbed through the skin.	
EPICHLOROHYDRIN (CAS		Can be absorbed through the skin.	
	for Air Contaminants (29 Cl	-	
	EPICHLOROHYDRIN (CAS 106-89-8)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 measure	,	• •	
Eye/face protection	Face shield is recommended.	Wear safety glasses with side shields (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical res	sistant gloves.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	In case of insufficient ventilati	on wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Wash hands after handling and before eating. Keep away from food and drink. Contaminated work clothing should not be allowed out of the workplace.		
9. Physical and chemical properties			
Appearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Not available.		
Odor	Not available.		
Odor threshold	Not available.		
рН	Not available.		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	Not available.		
Flash point	> 230.0 °F (> 110.0 °C) Pens	ky-Martens Closed Cup	
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or explosive limits			
Elemente biliter lineite desseur	2.0.0/ astimated		

Flammability limit - lower (%)	3.8 % estimated
Flammability limit - upper (%)	21 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	6.03 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	772 °F (411.11 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	1.11 @25°C

# 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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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	Prolonged inhalation may be harmful.		
Skin contact	Causes severe skin burns. May cause an allergic skin reaction		
Eye contact	Causes serious eye damage.		
Ingestion	May be harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		

#### Information on toxicological effects

Acute toxicity	Toxic in contact with skin. Harmful if swallowed.
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Components	Species	Test Results			
BUTYL GLYCIDYL ETHER (CAS 24	•				
Acute					
Dermal					
LD50	Rabbit	0.788 g/kg			
Inhalation					
LC50	Rat	> 670 mg/l, 8 Hours			
Oral					
LD50	Rat	2.05 g/kg			
EPICHLOROHYDRIN (CAS 106-89	-8)				
Acute					
Oral					
LD50	Rat	90 mg/kg			
Skin corrosion/irritation	Causes severe skin burns and eye damage.				
Serious eye damage/eye irritation	Causes serious eye damage				
Respiratory or skin sensitizat	ion				
ACGIH sensitization					
N-BUTYL GLYCIDYL ETH	IER (BGE) (CAS 2426-08-6)	Dermal sensitization			
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.				
Skin sensitization	May cause an allergic skin r	eaction.			
Germ cell mutagenicity	Suspected of causing genet	ic defects.			
Carcinogenicity	May cause cancer.				
IARC Monographs. Overa	II Evaluation of Carcinogen	icity			
EPICHLOROHYDRIN (CA	S 106-89-8)	2A Probably carcinogenic to humans.			
	ted Substances (29 CFR 19	10.1001-1052)			
Not regulated.					
	Program (NTP) Report on Ca				
EPICHLOROHYDRIN (CA	,	Reasonably Anticipated to be a Human Carcinogen.			
Reproductive toxicity	i his product is not expected	d to cause reproductive or developmental effects			

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard Chronic effects	Not an aspiration hazard. Prolonged inhalation may be harmful.
	rolonged initialation may be narman.

#### **12. Ecological information**

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
PENNTROWEL EPOXY PRIM	ER RESIN			
Aquatic				
Crustacea	EC50	Daphnia	3.0857 mg/l, 48 hours estimated	
Fish	LC50	Fish	1.7123 mg/l, 96 hours estimated	
Components		Species	Test Results	
EPICHLOROHYDRIN (CAS 1	06-89-8)			
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	9.1 - 12.3 mg/l, 96 hours	
rsistence and degradabilit	y No data is	available on the degradability of any ingredier	its in the mixture.	
paccumulative potential				
Partition coefficient n-oc	tanol / wate	er (log Kow)		
BUTYL GLYCIDYL ETHER				
EPICHLOROHYDRIN	IN 0.45			
bility in soil	No data available.			
her 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.			
3. Disposal considerat	ions			

#### **Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. Local disposal 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** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

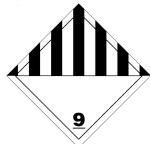
#### IMDG

UN number UN proper shipping name	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN), MARINE POLLUTANT (EPICHLOROHYDRIN)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes

EmSF-A, S-FSpecial precautions for<br/>userRead safety instructions, SDS and emergency procedures before handling.EPICHLOROHYDRINFor the second sec

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

#### IMDG



**Marine pollutant** 



**General information** 

IMDG Regulated 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.

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

Not regulated.	
CERCLA Hazardous Substance List (40 CFR 302.4)	)

Listed.

100 LBS

EPICHLOROHYDRIN (CAS 106-89-8) SARA 304 Emergency release notification

EPICHLOROHYDRIN (CAS 106-89-8)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### 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)	
EPICHLOROHYDRIN	106-89-8	100	1000			
SARA 311/312	Vec					

SARA 311/312 Hazardous chemical Yes

Classified hazard categories	Acute toxicity (any route of Skin corrosion or irritation Serious eye damage or ey Respiratory or skin sensiti Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxic Hazard not otherwise clas	e irritation zation tity (single or repeat	ed exposure)	
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
EPICHLOROHYDRIN		106-89-8	1 - 5	
Other federal regulations				
Clean Air Act (CAA) Section	on 112 Hazardous Air Poll	utants (HAPs) Lis	t	
EPICHLOROHYDRIN (CA Clean Air Act (CAA) Section		ase Prevention (4	0 CFR 68.130)	
EPICHLOROHYDRIN (CA	S 106-89-8)	_	-	
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65				
n n	alifornia Safe Drinking Water ot known to contain any cher formation go to www.P65Wa	nicals currently liste		
California Proposition	65 - CRT: Listed date/Ca	rcinogenic substa	ince	
EPICHLOROHYDRIN		Listed: Octobe		
California Proposition	65 - CRT: Listed date/Ma	ale reproductive t	oxin	
EPICHLOROHYDRIN US. California. Candid 69502.3, subd. (a)) EPICHLOROHYDRIN	ate Chemicals List. Safer	Listed: Septen Consumer Produc	-	Code Regs, tit. 22,
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Ch	nemical Substances (	(AICS)	Yes
Canada	Domestic Substances List	(DSL)		Yes
Canada	Non-Domestic Substances	: List (NDSL)		No
China	Inventory of Existing Cher	nical Substances in	China (IECSC)	Yes
Europe	European Inventory of Exi (EINECS)	isting Commercial Cl	hemical Substances	Yes
Europe	European List of Notified (	Chemical Substances	s (ELINCS)	No
Japan	Inventory of Existing and	New Chemical Subs	tances (ENCS)	Yes
Korea	Existing Chemicals List (EC	CL)		Yes
New Zealand	New Zealand Inventory			Yes
Philippines	Philippine Inventory of Ch (PICCS)	emicals and Chemic	al Substances	Yes
Taiwan	Taiwan Chemical Substand	ce Inventory (TCSI)		Yes
United States & Puerto Rico	Toxic Substances Control	Act (TSCA) Inventor	Ŋ	Yes
*A "Yes" indicates that all compo	onents of this product comply wi	ith the inventory requi	rements administered by th	e governing country(s)

\*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	02-19-2020
Version #	01

Health: 2 Flammability: 3 Instability: 0 Ergon Armor cannot anticipate all conditions under which this information and its product, or the Disclaimer products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available