SAFETY DATA SHEET



1. Identification

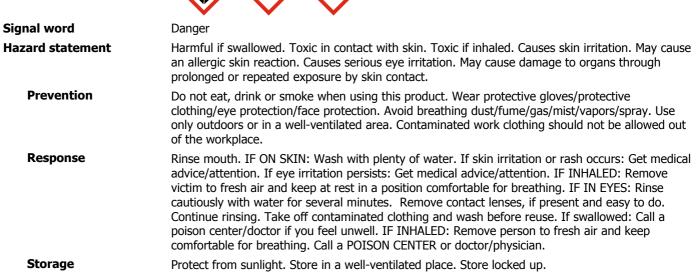
Product identifier	PENNTROWEL EPOXY RESIN (All Colors)	
Other means of identification	Not available.	
Recommended use	Corrosion Engineering	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		

Manufacturer

Company Name Address	Ergon Armor 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 hours	8:00 a.m. to 5:00 p.m.	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



80% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN		25068-38-6	70 - 90
XYLENE (MIXED ISOMERS)		1330-20-7	5 - 10
FURFURYL ALCOHOL		98-00-0	1 - 10
			38.22 - 69.00

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Take off contaminated clothing and wash 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. Get medical attention if irritation develops and persists.
Ingestion	If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. 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. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

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 the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. 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. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. 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	The product is immiscible with water and will spread on the water surface.
	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 to original containers for re-use. 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 taste or swallow. Wear personal protective equipment. Avoid prolonged exposure. Use only in area provided with appropriate exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wash contaminated clothing before reuse. Do not get this material on clothing. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Ai Components	Туре	-		lue	
FURFURYL ALCOHOL (CAS 98-00-0)	PEL		20) mg/m3	
			50	ppm	
XYLENE (MIXED ISOMERS) (CAS 1330-20-7)	PEL		43	5 mg/m3	
			10) ppm	
US. ACGIH Threshold Limit Value	es				
Components	Туре		Va	lue	
FURFURYL ALCOHOL (CAS 98-00-0)	STEL		15	ppm	
	TWA		10	ppm	
XYLENE (MIXED ISOMERS) (CAS 1330-20-7)	STEL		150) ppm	
	TWA		10) ppm	
US. NIOSH: Pocket Guide to Che					
Components	Туре		Va	lue	
FURFURYL ALCOHOL (CAS 98-00-0)	STEL		60	mg/m3	
				ppm	
	TWA			mg/m3	
			10	ppm	
ogical limit values					
ACGIH Biological Exposure Indic	es	D	6	6	
Components Value		Determinant	Specimen	Sampling Time	
XYLENE (MIXED ISOMERS) 1.5 g/g (CAS 1330-20-7)		Methylhippuric acids	Creatinine in urine	*	
\ast - For sampling details, please see t	he source docu	ment.			
osure guidelines					
US - California OELs: Skin design	ation				
FURFURYL ALCOHOL (CAS 98-00	י ט	Can be	absorbed throu	ah the skin	

US - Minnesota Haz Subs:	Skin designation applies	
FURFURYL ALCOHOL (CA	• • • • • • • • • • • • • • • • • • • •	Skin designation applies.
US - Tennesse OELs: Skin d	lesignation	
FURFURYL ALCOHOL (CA	S 98-00-0)	Can be absorbed through the skin.
US ACGIH Threshold Limit	Values: Skin designation	
FURFURYL ALCOHOL (CA		Can be absorbed through the skin.
US NIOSH Pocket Guide to	Chemical Hazards: Skin desi	gnation
FURFURYL ALCOHOL (CA	S 98-00-0)	Can be absorbed through the skin.
Appropriate engineering controls		cluding appropriate local extraction, to ensure that the defined ot exceeded. Eye wash facilities and emergency shower must be oduct.
Individual protection measure	s, such as personal protective	e equipment
Eye/face protection	Wear safety glasses with side s	hields (or goggles).
Hand protection	Chemical resistant gloves are re gloves.	ecommended. If contact with forearms is likely wear gauntlet style
Other	Wear appropriate chemical resis	stant clothing.
Respiratory protection		naintain airborne concentrations below recommended exposure an acceptable level (in countries where exposure limits have not I respirator must be worn.
Thermal hazards	Wear appropriate thermal prote	ective clothing, when necessary.
General hygiene considerations	washing after handling the mat	or smoke. Always observe good personal hygiene measures, such as erial and before eating, drinking, and/or smoking. Routinely wash juipment to remove contaminants. Contaminated work clothing e workplace.

9. Physical and chemical properties

Appearance	Gray, opaque liquid
Physical state	Liquid.
Form	Liquid.
Color	Gray
Odor	Mild, sweet odor
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	281 °F (138.33 °C)
Flash point	> 105.0 °F (> 40.6 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	9.54 mm Hg at 70° F
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	1.1

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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

Harmful if swallowed. May cause an allergic skin reaction. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results	
FURFURYL ALCOHOL (CAS 98-0	00-0)		
Acute			
Dermal			
LD50	Rabbit	400 mg/kg	
Inhalation			
LC50	Rat	233 ppm, 4 Hours	
Oral			
LD50	Mouse	160 mg/kg	
	Rat	275 mg/kg	
Other			
LD50	Rabbit	650 mg/kg	
	Rat	85 mg/kg	
XYLENE (MIXED ISOMERS) (CA	S 1330-20-7)		
Acute			
Dermal			
LD50	Rabbit	> 43 g/kg	
Inhalation			
LC50	Mouse	3907 mg/l, 6 Hours	
	Rat	6350 mg/l, 4 Hours	
Oral			
LD50	Mouse	1590 mg/kg	
	Rat	3523 - 8600 mg/kg	
Other			
LD50	Rat	3.8 mg/kg	
* Estimates for product ma	y be based on additional component data not	shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitiza			
Respiratory sensitizatio	n Not available.		

Chin consisting tion	Ma	en elleveia elvie vezetien		
Skin sensitization Germ cell mutagenicity		an allergic skin reaction. ailable to indicate product or any compo	nents present at greater than 0.1% are	
	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Based on available data, the classification criteria are not met.			
IARC Monographs. Overal				
		-20-7) 3 Not classifiable as tances (29 CFR 1910.1001-1050)	to carcinogenicity to humans.	
Not listed.	Not classifi			
Reproductive toxicity Specific target organ toxicity	Not classifie			
- single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard	Not availab	le.		
Chronic effects		nhalation may be harmful. Prolonged ex organs through prolonged or repeated e	posure may cause chronic effects. May cause exposure.	
12. Ecological information				
Ecotoxicity			ardous. However, this does not exclude the armful or damaging effect on the environment.	
Components		Species	Test Results	
BISPHENOL A-(EPICHLORHY	ORIN) EPOXY	RESIN (CAS 25068-38-6)		
Crustacea	EC50	Daphnia magna	2.7 mg/l, 48 hours	
Fish	LC50	Salmo gairdneri (new name Oncorhynchus mykiss)	1.5 mg/l, 96 hours	
XYLENE (MIXED ISOMERS) ((Aquatic	CAS 1330-20-7	7)		
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours	
* Estimates for product may	be based on a	dditional component data not shown.		
		available on the degradability of this pro-	duct.	
Bioaccumulative potential	No data ava	ailable.		
Partition coefficient n-oct FURFURYL ALCOHOL XYLENE (MIXED ISOMERS)	anol / water	- (log Kow) 0.28 3.12 - 3.2		
Mobility in soil	No data ava	ailable.		
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 considerati	ons			
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. Do not discharge into drains, water courses or onto the ground.			
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).			
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.			
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14. Transport informatio				

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Not regulated as dangerous go	oods.			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.			
15. Regulatory informati	on			
US federal regulations	This product is a "Hazardous 29 CFR 1910.1200. All components are on the U		ed by the OSHA Hazard Communication Standard, tory List.	
TSCA Section 12(b) Export	Notification (40 CFR 707,	Subpt. D)		
Not regulated.				
CERCLA Hazardous Substa XYLENE (MIXED ISOMERS		Listed.		
US. OSHA Specifically Regi Not listed.	, ,)	
Superfund Amendments and R	eauthorization Act of 1986	S (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	(JARA)		
SARA 302 Extremely haza	rdous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
XYLENE (MIXED ISOMERS	5)	1330-20-7	5 - 10	
Other federal regulations				
other rederar regulations				
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Country(s) or region	Inventory name	On inventory (yes/no)*
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
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 country(s).

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

Issue date	12-02-2015
Version #	01
NFPA ratings	Health: 3 Flammability: 1 Instability: 1
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. The information in the sheet was written based on the best knowledge and experience currently available.