## SAFETY DATA SHEET



## 1. Identification

Product identifier	Vault Liner Primer
Other means of identification	None.
Recommended use	Industrial applications
<b>Recommended restrictions</b>	None known.
Manufacturer/Importer/Suppl	ier/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

Signal word

Hazard statement

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Danger

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs () through prolonged or repeated exposure.

Precautionary statement	
Prevention	Use personal protective equipment as required. 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. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Avoid release to the environment. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim 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. Call a poison center/doctor// if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage. In case of fire: Use CO2, dry chemical, or foam for extinction.
Storage	Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	May form explosible dust-air mixture if dispersed. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Dust clouds can be ignited by an electrostatic discharge.
Supplemental information	None.

## 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
TOLUENE		108-88-3	50-60	
2-BUTANONE		78-93-3	10-20	
PROPRIETARY INGREDIENTS		N/A	10-20	

#### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately. Get medical attention. Rescuers should put on appropriate protective gear. Do not use mouth-to-mouth method if victim inhaled the substance. If not breathing, give artificial respiration or give oxygen by trained personnel.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Get medical attention. Call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. When risk of unconsciousness, place and transport the victim in secured side position. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Most important symptoms/effects, acute and delayed	May cause respiratory irritation. Coughing. Defatting of the skin. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Irritation of nose and throat. Shortness of breath. Fever. Discomfort in the chest. Mild skin irritation. May cause redness and pain. Dermatitis. Choking.
Indication of immediate medical attention and special treatment needed	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
General information	Call a physician if symptoms develop or persist. If exposed or concerned: get medical attention/advice.

## 5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not use water as an extinguisher.
Specific hazards arising from the chemical	Flammable or explosive mixtures with air may be formed.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. Remove sources of ignition. Avoid breathing mist or vapor. Ensure adequate ventilation. Wear appropriate personal protective equipment. In case of inadequate ventilation, use respiratory protection. See Section 8 of the SDS for Personal Protective Equipment. Wear suitable protective clothing.
Methods and materials for containment and cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Soak up with inert absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the National Rivers Authority or other appropriate regulatory body. Runoff may pollute waterways.
7. Handling and storage	
Precautions for safe handling	Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. "Empty" containers retain product residue (liquid or vapor)

Conditions for safe storage,<br/>including anyand can be dangerous.Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid heat, sparks, open<br/>flames and other ignition sources. Keep out of the reach of children.incompatibilities

## 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Components	Туре	1	Va	lue	
2-BUTANONE (CAS 78-93-3)	PEL		59	0 mg/m3	
			20	0 ppm	
US. OSHA Table Z-2 (29 CFR 191				_	
Components	Туре	1	Va	lue	
TOLUENE (CAS 108-88-3)	Ceilin	g	30	0 ppm	
	TWA		20	0 ppm	
US. ACGIH Threshold Limit Value	es				
Components	Туре	1	Va	lue	
2-BUTANONE (CAS 78-93-3)	STEL			0 ppm	
	TWA			0 ppm	
TOLUENE (CAS 108-88-3)	TWA		20	ppm	
<b>US. NIOSH: Pocket Guide to Che</b>		-			
Components	Туре	1	Va	lue	
2-BUTANONE (CAS 78-93-3)	STEL		88	5 mg/m3	
				0 ppm	
	TWA			0 mg/m3	
				0 ppm	
TOLUENE (CAS 108-88-3)	STEL		56	0 mg/m3	
				0 ppm	
	TWA			5 mg/m3	
				0 ppm	
logical limit values					
<b>ACGIH Biological Exposure Indic</b>	es				
Components Value		Determinant	Specimen	Sampling Time	
2-BUTANONE (CAS 78-93-3)2 mg/l		MEK	Urine	*	
TOLUENE (CAS 108-88-3) 0.3 mg/	g	o-Cresol, with	Creatinine in	*	
		hydrolysis	urine		
0.03 mg	/1	Toluene	Urine	*	

ACGIH Biological Exposu				
Components	Value	Determinant	Specimen	Sampling Time
	0.02 mg/l	Toluene	Blood	*
* - For sampling details, ple	ase see the source	e document.		
xposure guidelines				
US - California OELs: Ski	n designation			
TOLUENE (CAS 108-88-	·3)	Can be	absorbed throu	gh the skin.
US - Minnesota Haz Subs	: Skin designati	on applies		
TOLUENE (CAS 108-88-	-3)	Skin de	signation applie	·S.
Appropriate engineering controls	local exhaust	ventilation, or other engi	neering controls	broof equipment. Use process enclosures, to control sources of dust, mist or vapor. worker exposure below exposure limits.
Individual protection measu Eye/face protection	• •	sonal protective equip lasses with side shields (		a face shield.
Skin protection Hand protection				clothing. Nitrile or neoprene gloves are
Other	Use chemical s appropriate ch viton. The use prevent repea	splash goggles and face nemical resistant gloves. of polyvinyl alcohol (PV	shield (ANSI Z87 Recommended ( A) gloves is reco ntact. Where spl	gloves are recommended. 7.1 or approved equivalent). Wear gloves include rubber, neoprene, nitrile or ommended. Wear appropriate clothing to lashing is possible, full chemically resistant red.
Respiratory protection		g dust/fume/gas/mist/va s exceeding the Occupati		e an organic vapor respirator for imit.
Thermal hazards	Not available.			
General hygiene considerations	before eating.	Launder contaminated of	lothing before r	material. Wash hands after handling and euse. Do not get in eyes, on skin, on ors from heated material.

## 9. Physical and chemical properties

	P. 0 P 0. 0.00
Appearance	Black liquid
Physical state	Liquid.
Form	Not available.
Color	Black.
Odor	Solvent.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	2 - 3 estimated
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
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	
Density	8.40 lbs/gal estimated
Percent volatile	65 - 75 % by weight
Specific gravity	1 estimated
VOC	< 700 g/l estimated 5.8 lb/gal estimated

## 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Harmful if inhaled. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Decrease in blood pressure, changes in heart rate, and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful
Skin contact	Causes skin irritation. May cause an allergic skin reaction. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Causes eye irritation. May cause pain. May cause tearing, burning sensation and redness. May cause swelling.
Ingestion	May be harmful if swallowed. Fatal if swallowed. Irritating to mouth, throat and stomach
Symptoms related to the physical, chemical and toxicological characteristics	Irritating to mouth, throat, and stomach.

#### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
2-BUTANONE (CAS 78-93-3)		
Acute		
Dermal		
LD50	Rabbit	> 8000 mg/kg
Oral		
LD50	Rat	2300 - 3500 mg/kg
TOLUENE (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	14.1 ml/kg
Inhalation		
LC50	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
Skin corrosion/irritation	Not available.	

Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	on
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	
IARC Monographs. Overall	Evaluation of Carcinogenicity
TOLUENE (CAS 108-88-3)	) 3 Not classifiable as to carcinogenicity to humans.
US. National Toxicology Pr	rogram (NTP) Report on Carcinogens
Not listed.	
US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.1001-1050)
Not regulated.	
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Liver. Kidneys. Central nervous system.
Aspiration hazard	Not available.

## 12. Ecological information

#### Ecotoxicity

Product		Species	Test Results	
Vault Liner Primer				
Aquatic				
Crustacea	EC50	Daphnia	18.5735 mg/l, 48 hours estimated	
Fish	LC50	Fish	159.1934 mg/l, 96 hours estimated	
Components		Species	Test Results	
2-BUTANONE (CAS 78-93-3)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours	
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours	
TOLUENE (CAS 108-88-3)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours	
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours	
ersistence and degradabilit	y Not available.			
oaccumulative potential	Not available.			
Partition coefficient n-oc	tanol / water (	log Kow)		
2-BUTANONE		0.29		
TOLUENE	<b>.</b>	2.73		
obility in soil		Not available.		
ther adverse effects	Not available.			
3. Disposal considerat	ions			
sposal instructions	be recycled if not allow this	All wastes must be handled in accordance with local, state and federal regulations. Material should be recycled if possible. Incinerate or landfill. Do not allow runoff to sewer, waterway or ground. Do not allow this material to drain into sewers/water supplies. Make sure containers are empty before discarding (explosion risk).		

Hazardous waste code

Not regulated.

US RCRA Hazardous Waste	U List: Reference
2-BUTANONE (CAS 78-93-	-3) U159
TOLUENE (CAS 108-88-3)	U220
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
14. Transport information	n
DOT	
UN number	UN1263
UN proper shipping name Transport hazard class(es)	Paint related material including paint thinning, drying, removing, or reducing compound
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Special precautions for user	Not available.
Special provisions	B1, B52, IB3, T2, TP1, TP29
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
IATA	
UN number	UN1263
UN proper shipping name Transport hazard class(es)	Paint related material (including paint thinning or reducing compounds)
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Not available.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	compoundy
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	•••
Marine pollutant	No.
EmS	F-E, <u>S</u> -E
Special precautions for	Not available.
user	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	NOT AVAIIADIE.



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#### **15. Regulatory information**

#### **US federal regulations**

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

Not regulated.	
<b>CERCLA Hazardous</b>	Su

CERCLA Hazardous Substance List (40 CFR 302.4)	
	isted.

OCUA Crossifically, Desculated Cybetersee (20)	OFD 4040 404
TOLUENE (CAS 108-88-3)	Listed.
	Listea

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

## Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA) **Hazard categories**

No

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312

## Hazardous chemical

SARA 313 (TRI reporting)	1		
Chemical name		CAS number	% by wt.
TOLUENE		108-88-3	55
Other federal regulations			
Clean Air Act (CAA) Sectio	on 112 Hazardous A	ir Pollutants (HAPs) Lis	t
TOLUENE (CAS 108-88-3	3)		
Clean Air Act (CAA) Sectio	on 112(r) Accidenta	l Release Prevention (4	0 CFR 68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US - California Propositior	n 65 - CRT: Listed d	ate/Developmental tox	in
TOLLIENE (CAS 108-88-3	2)	Listed: Januar	v 1 1001

#### TOLUENE (CAS 108-88-3) Listed: January 1, 1991 US - California Proposition 65 - CRT: Listed date/Female reproductive toxin TOLUENE (CAS 108-88-3) Listed: August 7, 2009

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

2-BUTANONE (CAS 78-93-3) TOLUENE (CAS 108-88-3)

#### **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
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	07-11-2017
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
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.