

# **SAFETY DATA SHEET**

### 1. Identification

Product identifier	6711 Hardener	
Other means of identification	None.	
Recommended use	Liquid catalyst for epoxy resin	
<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

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		

Signal word	Danger
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful in contact with skin. Causes serious eye damage.
Precautionary statement	
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace.
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment see Section 4 of this SDS. Take off contaminated clothing and wash it before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep 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 or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention.
Storage	Store locked up.

Supplemental information

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
BENZYL ALCOHOL		100-51-6	30 - 50
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXYLAMINE		2855-13-2	25 - 45
TRIMETHYLHEXAMETHYLENE DIAMINE		25620-58-0	1 - 20
2,4,6-TRIS(DIMETHYLAMINOMETH YL)PHENOL		90-72-2	1 - 10
Other components below reportable	levels		14.55

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

#### 4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.	
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.	
Most important symptoms/effects, acute and delayed	Irritation of eyes. May cause an allergic skin reaction. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.	
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	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder. Water fog. Dry sand. Limestone powder.	
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. Upon decomposition, this product may yield poisonous gases including oxides of nitrogen, hydrogen gas and ammonia. Do not release runoff from fire control measures to sewers or waterways.	
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. Avoid contact with skin.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	

### 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of
protective equipment and	low areas. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material
emergency procedures	unless wearing appropriate protective clothing. 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. Use care in handling/storage. All handling to take place in well-ventilated area. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Eye wash facilities and emergency shower must be available when handling this product. Avoid contact with eyes. All handling to take place in well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Do not eat, drink or smoke when using the product.	
Conditions for safe storage, including any incompatibilities	Do not store in metal reactive containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store near acids. Keep tightly closed in a dry, cool and well-ventilated place.	

### 8. Exposure controls/personal protection

### **Occupational exposure limits**

Components	Туре	Value		
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3		
		10 ppm		
iological limit values	No biological exposure limits noted for	or the ingredient(s).		
ppropriate engineering ontrols	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Provide eyewash station and safety shower.			
ndividual protection measure Eye/face protection	es, such as personal protective equi Wear safety glasses; chemical goggle	•		
Skin protection Hand protection	Nitrile, butyl rubber or neoprene gloves are recommended. Impervious gloves. PVC disposable gloves. Chemical resistant gloves.			
Other	Wear appropriate clothing to prevent any possibility of skin contact.			
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
. Physical and chemica	l properties			
ppearance				
Physical state	Liquid.			
Form	Not available.			
Color	Not available.			
dor	Not available.			
dor threshold	Not available.			
н	Not available.			
lelting point/freezing point	4.64 °F (-15.2 °C) estimated			
nitial boiling point and oiling range	212 °F (100 °C) estimated	212 °F (100 °C) estimated		
lash point	199.4 °F (93.0 °C) estimated			
	Not available.			
vaporation rate	Not available.			

#### Upper/lower flammability or explosive limits

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Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.09 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	816.8 °F (436 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.29 g/cm3
Specific gravity	0.995

### 10. Stability and reactivity

Reactivity	Corrosive vapors.		
Chemical stability	Stable under normal temperature conditions.		
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature.		
Incompatible materials	Product corrodes copper, aluminum, zinc, and galvanized surfaces. Oxidizing agents. Mineral Acids. Sodium Hypochlorite. Organic Acids. Nitrous acid and other nitrosating agents. Strong acids. Strong bases.		
Hazardous decomposition products	Aldehydes. Nitrosamine. Nitric Acid. Nitrogen oxides (NOx). Ammonia. Carbon monoxide. Carbon dioxide. Hydrocarbon fragments.		

### **11.** Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.	•		
Skin contact	Causes severe skin burns and eye damage. May cause an allergic skin reaction.			
Eye contact	Causes serious eye damage.			
Ingestion	Harmful if swallowed.			
Symptoms related to the physical, chemical and toxicological characteristics	Not available.			
Information on toxicological e	effects			
Acute toxicity				
Components	Species	Test Results		
BENZYL ALCOHOL (CAS 100-51-6	)			
Acute				
Dermal				
LD50	Rabbit	2000 mg/kg		
Inhalation				
LC50	-	> 4.178 mg/l, 4 Hours		
Oral				
LD50	Rat	1230 - 3100 mg/kg		
Skin corrosion/irritation	Causes severe skin burns and eye damage.			
Serious eye damage/eye irritation	Causes serious eye damage.			

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Respiratory or skin sensitization Respiratory sensitization	on Not available.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	Not available.		
Carcinogenicity			
IARC Monographs. Overal	Evaluation of	Carcinogenicity	
Not listed.			
	ed Substances	s (29 CFR 1910.1001-1053)	
Not listed. US. National Toxicology Pr	rogram (NTP) I	Report on Carcinogens	
Not listed.	- <b>j</b> ( , -		
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
12. Ecological information	on		
Ecotoxicity		omponents are not classified as environm ossibility that large or frequent spills can h	entally hazardous. However, this does not ave a harmful or damaging effect on the
Product		Species	Test Results
6711 Hardener			
Aquatic			
Crustacea	EC50	Daphnia	43.0044, 48 hours
Fish	LC50	Fish	416.6667, 96 hours
Acute	5050	Daubuia	
	EC50	Daphnia	43.0044, 48 hours estimated
	LC50	Fish	416.6667, 96 hours estimated Test Results
Components 3-AMINOMETHYL-3,5,5-TRIM	ETHVI CYCI OHE	<b>Species</b> XVI AMINE (CAS 2855-13-2)	Test Results
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	>= 14.6 - <= 21.5 mg/l, 48 hours
BENZYL ALCOHOL (CAS 100-	51-6)		
Aquatic			
<i>Acute</i> Fish	LC50	Pluosill (Lonomic macroshirus)	10, 96 hours
		Bluegill (Lepomis macrochirus)	
Persistence and degradability	No data is ava Not available.	ilable on the degradability of this product	
Bioaccumulative potential Partition coefficient n-octa			
BENZYL ALCOHOL	anoi / watei (i	1.1	
Mobility in soil	Not 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		claim or dispose in sealed containers at lic	ensed waste disposal site.

Disposal inscractions	concer and reclaim of dispose in scaled containers at needsed waste disposal site.
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.

## 14. Transport information

### DOT

DOT	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE), MARINE POLLUTANT
Transport hazard class(es)	
Class	8
	0
Subsidiary risk	
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for	Not available.
user	NOT available.
	107 TT 107 107 107 107 107 107 107 107 107 107
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	8
Special precautions for	Not available.
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. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE),
	MARINE POLLUTANT
Transport hazard class(es)	
Class	8
Subsidiary risk	-
	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for	Not available.
user	
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78	
and the IBC Code	









### 15. Regulatory information

#### **US federal regulations**

Toxic Substances Control Act (TSCA)

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

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

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Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

Classified hazard	Acute toxicity (any route of exposure)
categories	Skin corrosion or irritation
	Serious eye damage or eye irritation
	Respiratory or skin sensitization

#### SARA 313 (TRI reporting) Not regulated.

### Other federal regulations

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

Not regulated.

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

Not regulated.

# Safe Drinking Water Act Not regulated. (SDWA)

**International Inventories** 

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
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	05-01-2019
Revision date	04-11-2022
Version #	03
NFPA ratings	Health: 3 Flammability: 1 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	First-aid measures: Most important symptoms/effects, acute and delayed Accidental release measures: Personal precautions, protective equipment and emergency procedures HazReg Data: North America GHS: Classification