

PRODUCT IDENTIFIER: Horse Construction HM120 adhesive Epoxy Resin CHEMICAL FAMILY:..... Epoxy Adhesive resin mixture. INTENDED PRODUCT USES: Resin for fillers or adhesives.

MANUFACTURER:

Horse Construction Polymer Anchoring Systems, Inc. Address: 10190 Katy Frwy, Suite 352 Houston TX Postcode: 77043



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Jan

2019

MSDS No.: HM120

Revision No.:

Revision Date:

EMERGENCY TELEPHONE NUMBERS:

Non-transportation

HAZARD IDENTIFICATION 2.

Classification of Substance or Mixture

Skin corrosion/irritation, Category 2 Skin sensitizer, Category 1 Eye damage/irritation, Category 2A Chronic aquatic toxicity, Category 2

Label Elements

Hazard Pictogram(s):



Signal Word WARNING

Hazard Statements

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P 280 Wear protective gloves/protective clothing/eye protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical attention/advice.

P337 + P313 If eye irritation persists: Get medical attention/advice.

P362 + P364 Take off contaminated clothing and wash it before re-use.

P391 Collect spillage.

Disposal

P501 Dispose of contents/container in accordance with local, regional and international regulations.

Other Hazards Not Resulting In Classification

None known.

COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS 3.

INGREDIENT NAME	CAS #	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-80
Benzyl alcohol	100-51-6	10-30
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	5-10
Aliphatic polyamine Blend	68131-73-7*	3-8
Aluminum oxide Cement	01344-28-1	2-5
Siloxanes & silicones	67762-90-7	2-5
Quartz sand	14808-60-7	2-5



The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold. * = indicates Trade Secret Registry Number.

4. FIRST AID MEASURES

5. FIRE FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:...... Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information.

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION GUIDELINES: When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, depending on specific workplace conditions. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and cartridge based on ingredients listed in Section 3 and specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard.

Ingredient Name	CAS#	Exposure Limit Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	No data available
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	No data available
Aliphatic polyamine Blend	68131-73-7*	10 ppm (AIHA-WEEL)
Aluminum oxide Cement	01344-28-1	10 ppm (AIHA-WEEL)
Siloxanes & silicones	67762-90-7	No data available
Quartz sand	14808-60-7	No data available

PHYSICAL AND CHEMICAL PROPERTIES 9

PHYSICAL FORM:	Viscous liquid.
COLOR:	Colorless to yellow brown tint.
ODOR:	
ODOR THRESHOLD:	No data available
рН	No data available
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	> 400°F (204°C).
FLASH POINT:	>200°F (93°C). Estimated based on ingredient data.
FLAMMABILITY (solids or gasses)	No data available
AUTO IGNITION TEMPERATURE	No data available
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	. No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	1.15
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for information	about the total volatile content of the resin/hardener system.

10. STABILITY AND REACTIVITY

mixed with an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization.

External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

CONDITIONS TO AVOID: Avoid excessive heat.

uncontrolled exothermic reactions or when otherwise heated to decomposition.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	>15,000 mg/kg (rat)	>23,000 mg/kg (rabbit)	No data
Benzyl alcohol	100-51-6	1620 mg/kg	No data	>4.18 mg/l 4 h aerosol
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	>2,000 mg/kg (rat)	2,000 mg/kg (rat)	No data
Aliphatic polyamine Blend	68131-73-7*	>2,140 mg/kg (rat)	880 µL/kg (rabbit)	No data
Aluminum oxide Cement	01344-28-1	>4,500 mg/kg (rat)	1,200 µL/kg (rat)	No data
Siloxanes & silicones	67762-90-7	Not applicable	Not applicable	Not applicable
Quartz sand	14808-60-7	Not applicable	Not applicable	Not applicable

based on acute toxicity estimation methods using ingredient data. Oral: Not classified. Does not meet acute oral toxicity criteria.

Dermal: Not classified. Does not meet acute dermal toxicity criteria.



Inhalation:..... Not classified. Does not meet acute inhalation toxicity criteria. If product is heated, vapors generated can cause headache, nausea, dizziness and possible respiratory irritation if inhaled in high concentrations.

SERIOUS EYE DAMAGE / IRRITATION:...... Causes serious eye irritation. Category 2A.

Repeated exposure to high vapor concentrations may cause irritation of pre-existing lung allergies and increase the chance of developing allergy symptoms to this product.

shown not to interfere with reproduction. Diglycidyl ether bisphenol-A did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

were negative. In vitro mutagenicity tests were negative in some cases and positive in others.

equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that Diglycidyl ether bisphenol-A is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that Diglycidyl ether bisphenol-A is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence - inadequate; animal evidence - sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

OTHER HEALTH HAZARD INFORMATION: None known.

12. **ECOLOGICAL INFORMATION**

Estimate: Not classified. Does not meet acute aquatic classification criteria.

CHRONIC AQUATIC TOXICITY: No specific test data available for the mixture. Calculated Estimate: Aquatic Chronic Category 2.

PERSISTANCE AND BIODEGRADABILITY: No specific test data available for the mixture.

MOBILITY IN SOIL: No specific test data available for the mixture.

ADDITIONAL ECOTOXICITY INFORMATION: In the liquid, uncured state, this product may be harmful to aquatic life long lasting effects. Prevent release to the environment, sewers and natural waters.

Ingredient	CAS#	Ecotoxicity Classification Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2
Benzyl alcohol	100-51-6	Not Classified
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	Aquatic Chronic Cat. 2
Aliphatic polyamine Blend	68131-73-7*	Aquatic Chronic Cat. 2
Aluminum oxide Cement	01344-28-1	Aquatic Chronic Cat. 2
Siloxanes & silicones	67762-90-7	Aquatic Chronic Cat. 2
Quartz sand	14808-60-7	Not Classified

DISPOSAL CONSIDERATIONS 13.

WASTE DISPOSAL METHOD: Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14.	TRANSPORTATION INFORMATION	
	US DOT	
	U.N./N.A. NUMBER:	Not regulated.

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SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	Not applicable.

CANADA TDG

U.N./N.A. NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

IMDG

U.N. NUMBER:	UN3082.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	
PACKING GROUP:	PG III.
EmS Number:	F-A, S-F
MARINE POLLUTANT	Yes

ICAO/IATA

U.N. NUMBER:	UN3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	Class 9.
PACKING GROUP:	PG III.
MARINE POLLUTANT:	Yes

15. REGULATORY INFORMATION

INVENTORY LIST	STATUS	
TSCA	All ingredients are listed or otherwise compliant.	
EINECS or ELINCS	All ingredients are listed or otherwise compliant.	
CEPA (DSL/NDSL)	All ingredients are listed or otherwise compliant.	
AICS	All ingredients are listed or otherwise compliant.	
ENCS	All ingredients are listed or otherwise compliant.	
KECI	All ingredients are listed or otherwise compliant.	
IECSC	All ingredients are listed or otherwise compliant.	
PICCS	All ingredients are listed or otherwise compliant.	
	TSCA EINECS or ELINCS CEPA (DSL/NDSL) AICS ENCS KECI IECSC	TSCA All ingredients are listed or otherwise compliant. EINECS or ELINCS All ingredients are listed or otherwise compliant. CEPA (DSL/NDSL) All ingredients are listed or otherwise compliant. AICS All ingredients are listed or otherwise compliant. ENCS All ingredients are listed or otherwise compliant. KECI All ingredients are listed or otherwise compliant. IECSC All ingredients are listed or otherwise compliant.

Canada WHMIS Confidential Business Information (CBI): No data available.

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ).	
Subject to Section 311 or 312	
Subject to Section 313	

STATE REGULATORY INFORMATION:

Chemicals listed below may be specifically regulated by individual states. For details on state regulatory requirements you should contact the appropriate state agency.

COMPONENT NAME

/CAS NUMBER		STATE CODE
Epichlorohydrin		
106-89-8	< 5ppm	¹ CA

^{1.} These substances are known to the state of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	
SDS CONTACT:	sharma@horse-construction.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	January 15, 2019
SUPERSEDES DATE:	January 01, 2014



OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	2
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend: 0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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