SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	WEST SYSTEM [®] SIX10 [®] Part A Resin
APLICABLE PRODUCT CODES:	610A
CHEMICAL FAMILY:	Epoxy resin mixture.
INTENDED PRODUCT USES:	Adhesive resin for composites.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	610A-2022a

MANUFACTURER:

Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A. Phone: 866-937-8797 or 989-684-7286 www.westsystem.com

EMERGENCY TELEPHONE NUMBERS (24 HRS): Transportation

2. HAZARDS IDENTIFICATION

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.

 P280 Wear protective gloves/protective clothing/eye protection/face 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.

 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

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	80-100
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	5-10

Synthetic Amorphous, Pyrogenic Silica	112945-52-5	5-10
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	1-5
Oxirane, 2,2'[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-	17557-23-2	1-5

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.

FIRST AID MEASURES

immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as precautionary measure.

sensitization. RESPONSE: Remove contaminated clothing. Wipe excess from skin. Apply waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur.

RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing.

ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested.

FIRE FIGHTING MEASURES

Direct water stream.

combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, and carbon dioxide.

protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

ACCIDENTAL RELEASE MEASURES

appropriate safety and personal protective equipment as indicated in Section 8.

material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual.

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

HANDLING AND STORAGE

moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin.

HANDLING PRECAUTIONS: Avoid all skin and eye contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate general ventilation and/or local ventilation to keep exposures below established limits.

butyl rubber or natural rubber) and full body-covering clothing.

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.
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	No data available.
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³
		Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3 mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA, Respirable
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	No data available.
Oxirane, 2,2'[(2,2-dimethyl-1,3- propanediyl)bis(oxymethylene)]bis-	17557-23-2	No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Gel-naste
COLOR:	Cloudy off-white
ODOR:	
ODOR THRESHOLD:	
pH MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	> 400°F (204 C) Estimated based on ingredient data.
FLASH POINT:	>200°F (93°C) Based on ASTM D92 test results from similar product.
AUTO IGNITION TEMPERATURE	No data available
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	No data available
VAPOR PRESSURE	No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	1.17
BULK DENSITY	9.75 lbs./gal. (1.17 kg/L)
VAPOR DENSITY (air = 1)	< 1 mmHg@ 20°C. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	No data mm²/s @ 20°C
DECOMPOSITION TEMPERATURE:	
% 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

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

CONDITIONS TO AVOID: Avoid excessive heat.

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]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	

Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	17000 mg/kg (rat)	No data	No data
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	>2000 mg/kg	2000 mg/kg	No data
Oxirane, 2,2'[(2,2-dimethyl-1,3- propanediyl)bis(oxymethylene)]bis-	17557-23-2	4500 mg/kg	>2000 mg/kg	No data
ACUTE TOXICITY: based on acute toxicity estimation methods using ing Oral: Dermal: Inhalation: heated, vapors generated can cause headache, nau: SKIN CORROSION / IRRITATION: SERIOUS EYE DAMAGE / IRRITATION: RESPIRATORY SENSITIZATION: Repeated exposure to high vapor concentrations ma developing allergy symptoms to this product. SKIN SENSITIZATION: REPRODUCTIVE TOXICITY: shown not to interfere with reproduction. Diglycidyl e	gredient data. Noi Noi sea, dizziness and po Cai Cai y cause irritation of pi Ma	specific toxicity data exis classified. Does not mee classified. Does not mee classified. Does not mee ssible respiratory irritation uses skin irritation – Cate uses serious eye irritation classified. Does not mee re-existing lung allergies a y cause allergic skin reac classified. Diglycidyl eth	ts for this mixture. (et acute oral toxicity et acute dermal toxi et acute inhalation to n if inhaled in high o gory 2. . Category 2A. et criteria for respira and increase the ch tion. Category 1. er bisphenol-A, in a	Classification is criteria. city criteria. If product concentrations. atory sensitizer. nance of
pregnant rabbits were exposed by skin contact, the r MUTAGENICITY : Diglycidyl ether bisphenol-A in animal mutagenicity so others.	most likely route of ex	posure, or when pregnan classified. Does not mee	t rats or rabbits wer et criteria for germ c	e exposed orally.
CARCINOGENICITY: Many studies have been conducted to assess the po carcinogenicity has been reported in animals, when a bisphenol-A is carcinogenic. Indeed, the most recen concluded that Diglycidyl ether bisphenol-A is not cla	otential carcinogenicity all of the data are con tt review of the availab	v of diglycidyl ether of bis sidered, the weight of evi ble data by the Internatior	phenol-A. Although dence does not sho	n some weak evidence o bw that Diglycidyl ether
Epichlorohydrin, an impurity in this product (<5 ppm) changes in bacteria and cultured human cells. It has human carcinogen (Group 2A) based on the followin classified as an anticipated human carcinogen by the would result in measurable exposure concentrations	has been reported to been established by g conclusions: huma e National Toxicology	produce cancer in labora the International Agency n evidence – inadequate;	for Research on Ca animal evidence –	ancer (IARC) as a proba sufficient. It has been
A two-year dermal study in mice produced skin tumo (Holland, 1981).	ors at doses greater th	an 1.87 mg Neopentyl Gl	ycol Diglycidyl Ethe	er per mouse per week
SPECIFIC TARGET ORGAN TOXICITY (Single Exp	posure):Not	classified. Does not mee	et STOT SE criteria	
SPECIFIC TARGET ORGAN TOXICITY (Repeated				
ASPIRATION HAZARD:			et aspiration toxicity	criteria.
OTHER HEALTH HAZARD INFORMATION:	No	ne known.		
ECOLOGICAL INFORMATION				
ACUTE AQUATIC TOXICITY: Estimate: Does not meet acute aquatic toxicity require		specific test data availab	le for the mixture. C	Calculated
CHRONIC AQUATIC TOXICITY: Estimate: Aquatic Chronic Category 2.	No	specific test data availab	le for the mixture. C	Calculated
PERSISTANCE AND BIODEGRADABILITY:	No	specific test data availab	le for the mixture.	
	NI-			
MOBILITY IN SOIL:	NO	specific test data availab	le 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
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	Not classified.
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	Not classified.
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	Aquatic Chronic Cat. 2
Oxirane, 2,2'[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-	17557-23-2	Not classified.

13. DISPOSAL CONSIDERATIONS

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	
UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	
PACKING GROUP:	

ICAO/IATA

UN NUMBER:	UN 3077
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Class 9.
PACKING GROUP:	PG III.
MARINE POLLUTANT:	Yes
IMDG	
UN NUMBER:	UN 3077.
SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.

SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	PG III.
EmS Number:	F-A. S-F
MARINE POLLUTANT	
·····=·=·===	

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant.
Canada	CEPA (DSL/NDSL)	All ingredients are listed or otherwise compliant.
Australia	AICS	All ingredients are listed or otherwise compliant.
Japan	ENCS	All ingredients are listed or otherwise compliant.
South Korea	KECI	All ingredients are listed or otherwise compliant.
China	IECSC	All ingredients are listed or otherwise compliant.
Philippines	PICCS	All ingredients are listed or otherwise compliant.
New Zealand	NZIoC	All ingredients are listed or otherwise compliant.

US EPA TSCA Requirements:......No data available. 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 313	No data available.

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
Epichlorohydrin
106-89-8

< 5ppm

STATE CODE

¹CA

^{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:	Gougeon Brothers, Inc.
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	
SDS VERSION:	610A-2022a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

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



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

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SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	WEST SYSTEM [®] SIX10 [®] Part B Hardener
APPLICABLE PRODUCT CODES:	610B
CHEMICAL FAMILY:	Rubber modified-polyamine mixture.
	Curing agent for epoxy resins.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	610B-2022a
MANUFACTURER:	EMERGENCY TELEPHO

Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A. Phone: 866-937-8797 or 989-684-7286 www.westsystem.com

EMERGENCY TELEPHONE NUMBERS (24 HRS):

2. HAZARDS IDENTIFICATION

Classification of Substance or Mixture

Skin corrosion/irritation, Category 1B Skin sensitizer, Category 1 Eye damage/irritation, Category 1 Germ cell mutagenicity, Category 2 Specific target organ toxicity – repeated exposure, Category 2 Acute aquatic toxicity, Category 3 Chronic aquatic toxicity, Category 3

Label Elements

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H341 Suspected of causing genetic defects

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Precautionary Statements:

Prevention

P201 Obtain special instruction before use P202 Do not handle until all safety precautions have been read and understood P260 Do not breathe dust/fumes/gas/mists/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 P280 Wear protective gloves/protective clothing/eye protection/face protection Response P301 + P330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse or wash skin with soap and water (or shower). P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention P310 Immediately call a POISON CONTROL CENTER or doctor P333 + P313 If skin irritation or rash occurs: Get medical attention/advice P362 + P364 Take off contaminated clothing and wash it before reuse. Storage P405 Store locked up. Disposal

P501 Dispose of contents and container according to local, state, national and international regulations

Other Hazards

None known.

. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	CONCENTRATION (%)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	10-30
Polyoxypropylenediamine	9046-10-0	10-30
Benzyl alcohol	100-51-6	10-30
Non-hazardous	NA	7-13
Reaction products of triethylenetetramine with phenol and formaldehyde	32610-77-8	7-13
Triethylenetetramine	112-24-3	7-13
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	1-5
Synthetic amorphous pyrogenic silica	112945-52-5	5-10
Hydroxybenzene	108-95-2	1-5
Benzene-1,3-dimethanamine	1477-55-0	1-5
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	1-5
Diethylenetriamine	111-40-0	1-5

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.

4. FIRST AID MEASURES

5. FIRE FIGHTING MEASURES

Use full-body protective gear and a self-contained breathing apparatus. Use of water may generate toxic aqueous solutions. Do not allow water run-off from fighting fire to enter drains or other water courses.

6. ACCIDENTAL RELEASE MEASURES

appropriate safety and personal protective equipment as indicated in Section 8.

ENVIRONMENTAL PRECAUTIONS:...... Prevent from entering into soil, ditches, sewers, waterways and

material (e.g., sand) and collect in a suitable, closed container. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Warm, soapy water may be used to clean residual.

groundwater. See Section 12 for environmental impact information.

HANDLING AND STORAGE

moisture. Keep container tightly closed. Store in a secure location with restricted access or store locked up. Store away from incompatible materials and conditions listed in Section 10.

material. Avoid exposure to concentrated vapors. Avoid skin and eve contact. Wash thoroughly after handling. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

EXPOSURE CONTROLS/PERSONAL PROTECTION

exposures below established limits.

EYE PROTECTION GUIDELINES: Chemical splash-proof goggles or face shield.

butyl rubber or natural rubber) and full body-covering clothing.

below established limits, use a NIOSH approved respirator with an organic vapor cartridge, organic vapor cartridge + P100, or a multi-contaminant cartridge, 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.

wash. Wash thoroughly after use. Contact lens should not be worn when working with this material. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
2-Propenenitrile, polymer with 1,3-		No data available
butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-		
piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	
Polyoxypropylenediamine	9046-10-0	No data available
Benzyl alcohol	100-51-6	10 ppm TWA (WEEL)
Non-hazardous	NA	No data available
Reaction products of triethylenetetramine with phenol and formaldehyde	32610-77-8	No data available
Triethylenetetramine	112-24-3	AIHA WEEL: 1 ppm ; 6 mg/ m3; Absorbed via skin
Phenol, 2,4,6-tris[(dimethylamino)methyl]		(Reference Triethylenetetramine, CAS# 112-24-3)
reaction products with triethylenetetramine	1101788-77-5	AIHA WEEL: 1 ppm ; 6 mg/ m3; Absorbed via skin
		Amorphous silica: OSHA PEL 6 mg/m ³
Synthetic amorphous pyrogenic silica	112945-52-5	Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3 mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA, Respirable
Hydroxybenzene	108-95-2	ACGIH TWA: 5 ppm; 19 mg m ³ ; BEI [®] Index Substance
		NIOSH REL: 5 ppm; 19 mg/ m ³
		OSHA PEL: 5 ppm; 19 mg m ³ ; Table Z-1
		NIOSH CEILING: 15.6 ppm; 60 mg/m ³ ; Danger of cutaneous absorption
		0.1 mg/m3 SKIN, Ceiling NIOSH; OSHA Z1A
Benzene-1,3-dimethanamine	1477-55-0	Remarks: potential for skin absorption
Polymer of epichlorohydrin / bisphenol A	31326-29-1	No data available

WEST SYSTEM[®] SIX10 Part B Hardener

	and diethylenetriamine		
	Diethylenetriamine	111-40-0	ACGIH TWA 1ppm; SKIN
9.	PHYSICAL AND CHEMICAL PROPERTIES		

PHYSICAL FORM:	Gel
COLOR:	
ODOR:	Amine-like odor
ODOR THRESHOLD:	
рН	10.59
MELTING POINT / FREEZING POINT	No data available.
BOILING POINT (760mm/Hg):	No data available.
FLASH POINT:	> 300°F(149°C) estimated based similar product.
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	No data available.
UPPER EXPLOSIVE LIMIT (UEL)	No data available.
VAPOR PRESSURE	No data available.
SPECIFIC GRAVITY/DENSITY (water = 1)	1.04
BULK DENSITY	8.67 lbs./gal. (1.04 kg/L)
VAPOR DENSITY (air = 1)	No data available.
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available.
WATER SOLUBILITY (% BY WT.)	No data available.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available.
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available
% VOLATILE BY WEIGHT:	ASTM 2369-07 was used to determine the Volatile Matter Content of mixed
epoxy resin and hardener. The combined VOC content for the res	in and hardener system is listed below.

	VOC Content	
Resin/Hardener	<u>(g/L)</u>	(lbs/gal)
610A/610B	11.8	0.10

10. STABILITY AND REACTIVITY

mixed with an epoxy resin will cause irreversible polymerization with significant heat buildup. Strong acids can cause polymerization.

methylene chloride). 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, ignition sources.

decomposition. Decomposition products may include, but not limited to: oxides of nitrogen, oxides of carbon, volatile amines, ammonia, nitric acid, aldehydes, nitrosamines.

11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
2-Propenenitrile, polymer with 1,3-butadiene, 1- cyano-1-methyl-4-oxo-4-[[2-(1-		>15,400 mg/kg	>3000 mg/kg	No data available
piperazinyl)ethyl]amino]butyl-terminated	68683-29-4			
Polyoxypropylenediamine	9046-10-0	2855 mg/kg	2980 mg/kg	>0.74 mg/L 8h vapor
Benzyl alcohol	100-51-6	1620 mg/kg	No data available	>4.18 mg/l 4h aerosol
Non-hazardous	NA	No data available	No data available	No data available
Reaction products of triethylenetetramine with phenol and formaldehyde	32610-77-8	No data	No data	No data
Triethylenetetramine	112-24-3	1716 mg/kg	1465 mg/kg	No data
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	1716 mg/kg (reference Triethylenetetramine)	1465 mg/kg	No data
Synthetic amorphous pyrogenic silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data
Hydroxybenzene	108-95-2	317 mg/kg	630 mg/kg (solid)	0.9 mg/l; 8h
Benzene-1,3-dimethanamine	1477-55-0	980 mg/kg	2000 mg/kg	1.34 mg/l 4h mist / aerosol
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	1620 mg/kg	No data available	No data available
				¹ 0.07-0.3 mg/l 4h

Diethylenetriamine	111-40-0	1080 r	пд/кд	1090 mg/kg	mist/aeroso
^{1.} LC50 data has been generated for this not been determined that this data directl foreseeable or anticipated conditions of u	y correlates to an inherent h				
ACUTE TOXICITY: based on acute toxicity estimation metho	ds using ingredient data.				
Oral:acute dermal toxicity classifica Dermal:acute dermal toxicity classifica Absorption of phenolic solution spleen, and cause edema of the Inhalation:	tion criteria. Ingestion may tion criteria. However, prod as through the skin may be ne lungs.	result in gastrointest Not classified. Bas uct contains materia very rapid and can c	inal irritation or un sed on available of Is that are readily ause damage to	lcer. data product does r v absorbed through the kidneys, liver, p	not meet the skin. ancreas,
SKIN CORROSION / IRRITATION: immediate. May cause persistent irritati		Category 1B. Cau	ses severe skin t	ourns. Effects may l	be
SERIOUS EYE DAMAGE / IRRITATION vision. May cause corneal damage result			es serious eye da	mage. May cause	blurred
RESPIRATORY SENSITIZATION: meet classification criteria.		Not classified. Bas	ed on available o	data this product do	es not
SKIN SENSITIZATION:		Category 1. May c	ause allergic skir	n reaction.	
REPRODUCTIVE TOXICITY:		Not classified. Bas	sed on available o	data this product do	es not meet
MUTAGENICITY:		Category 2. This p	product contains a	a substance (phenc	ol, CAS# 108-95-2
CARCINOGENICITY:		Not classified. Bas	sed on available o	data this product do	es not meet
SPECIFIC TARGET ORGAN TOXICITY classification criteria. However, it is antici respiratory track and may cause central r	pated that inhalation of cond				
SPECIFIC TARGET ORGAN TOXICITY through the skin. Absorption of phenolic s spleen, and cause edema of the lungs.					
ASPIRATION HAZARD:		Not classified. Bas	ed on available o	data this product do	es not meet
OTHER HEALTH HAZARD INFORMATI by inhalation when aerosolized due to sp sprayed or heated. While this product do aggravation of existing respiratory conditi	raying or when a mist is forr es not meet the classificatio	ned due to heating.	It is advised that	exposure not occur	to product that is
ECOLOGICAL INFORMATION					
ACUTE AQUATIC TOXICITY: available for the mixture. Calculated estir	nate based on ingredient da	Category 3 – Harr ta. Avoid release to	nful to aquatic life the environment.	e. No specific test d	ata is
CHRONIC AQUATIC TOXICITY:					
PERSISTANCE AND BIODEGRADABIL	ITY:	No specific test da	ta available for th	ne mixture.	

Ingredient	CAS#	Ecotoxicity Classification Information
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-		No data available
methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-		
terminated	68683-29-4	
Polyoxypropylenediamine	9046-10-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2
Benzyl alcohol	100-51-6	No data available

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Non-hazardous	NA	No data available
Reaction products of triethylenetetramine with phenol and formaldehyde	32610-77-8	Aquatic Chronic Cat. 3
Triethylenetetramine	112-24-3	Aquatic Chronic Cat. 3
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	(Reference Triethylenetetramine); Aquatic Chronic Cat. 3
Synthetic amorphous pyrogenic silica	112945-52-5	No data available
Hydroxybenzene	108-95-2	Aquatic Acute Cat. 3; Aquatic Chronic Cat. 2
Benzene-1,3-dimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Polymer of epichlorohydrin / bisphenol A and	31326-29-1	
diethylenetriamine		No data available
Diethylenetriamine	111-40-0	No data available

13. DISPOSAL CONSIDERATIONS

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 UN NUMBER:	Polyamines, solid, corrosive, n.o.s. Polyoxypropylenediamine Class 8 PG III
CANADA TDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	Polyamines, solid, corrosive, n.o.s. Polyoxypropylenediamine Class 8 PG III
IMDG UN NUMBER:	Polyamines, solid, corrosive, n.o.s. Polyoxypropylenediamine Class 8 PG III F-A, S-B
ICAO/IATA UN NUMBER:	Polyamines, solid, corrosive, n.o.s. Polyoxypropylenediamine Class 8 PG III

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS or ELINCS	No data available on CAS# 1101788-77-5. All other ingredients are listed or otherwise compliant.
Canada	CEPA (DSL/NDSL)	CAS# 1101788-77-5 listed on NDSL only. All other ingredients are listed or otherwise compliant.
Australia	AICS	No data available on CAS# 1101788-77-5. All ingredients are listed or otherwise compliant.
Japan	ENCS	No data available on CAS# 1101788-77-5. All ingredients are listed or otherwise compliant.
South Korea	KECI	No data available on CAS# 1101788-77-5. All ingredients are listed or otherwise compliant.
China	IECSC	All ingredients are listed or otherwise compliant. Notification registration complete for CAS# 1101788-77-5.

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Philippines	PICCS	No data available o compliant.	on CAS# 1101788-77-5. All ingredients are listed or otherwise
S EPA TSCA Re	equirements:	No data	a available.
anada WHMIS C	onfidential Business Inf	formation (CBI)No data	available.
Subject to Se has a particle or 4. Subject to Se Subject to Se Subject to Se	ection 302 (TPQ) e size of less than 100 mic ection 304 (RQ) ection 311 or 312 ection 313	rons or is handled in solution or m Phenol Refer to This pro	= 500/1000 (lbs.). TPQ = 500 lbs. if phenol is in powder form and notten form, or meets the criteria for a NFPA reactivity rating of 2, 3 RQ = 1000 lbs. o the health and physical classifications in section 2. oduct contains hydroxybenzene (phenol) and is subject to the ments and Reauthorization Act of 1986 and 40 CFR Part 372.
	agency.		or details on state regulatory requirements you should contact the STATE CODE
riethylenetetrami 12-14-3 enzene-1,3-dime 477-55-0			PA, MA, NJ MA, PA, NJ
ydroxybenzene)8-95-2 iethylenetriamine 11-40-0 morphous silica			PA, MA, NJ, IL, RI PA
631-86-9 or 1129	45-52-5		PA, NJ, MA

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

16. OTHER INFORMATION

REASON FOR ISSUE:	Update to Section 15.
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	
APPROVAL DATE:	January 3. 2022
SUPERSEDES DATE:	January 15, 2019
SDS VERSION:	610B-2022a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	3
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
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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