SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	.WEST SYSTEM [®] G/flex [®] 650 Part A Resin
APPLICABLE PRODUCT CODES:	
CHEMICAL FAMILY:	. Epoxy resin mixture.
INTENDED PRODUCT USES:	. Epoxy resin.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	.650A-2016b

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. <u>Response</u> 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. <u>Disposal</u>

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	60-100
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	10-30

The exact chemical identity and/or exact percentage (concentration) of each ingredient has been held as confidential business information (CBI). Refer to Section 15 for additional information regarding this CBI claim.

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.

FIRST AID FOR SKIN 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

PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.

MITIGATION AND CLEAN UP PROCEDURES: Stop leak without additional risk. Isolate area. Dike and absorb with inert 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.

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

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

exposures below established limits. 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.

contact. Avoid skin contact when removing gloves and other protective equipment. Wash thoroughly after handling. 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
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	No data available.
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	No data available.

PHYSICAL AND CHEMICAL PROPERTIES 9

PHYSICAL FORM:	Viscous liquid
COLOR:	
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) 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)	
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	. 9.75 lbs./gal. (1.17 kg/L)
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	. No data available
	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

plus 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]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4			
		>2000 mg/kg	2000 mg/kg	No data

ACUTE TOXICITY:	No specific toxicity data exists for this mixture. Classification is
Dermal:	Not classified. Does not meet acute oral toxicity criteria. Not classified. Does not meet acute dermal toxicity criteria. Not classified. Does not meet acute inhalation toxicity criteria. If product is ind possible respiratory irritation if inhaled in high concentrations.
SKIN CORROSION / IRRITATION:	
SERIOUS EYE DAMAGE / IRRITATION:	Causes serious eye irritation. Category 2A.
RESPIRATORY SENSITIZATION: Repeated exposure to high vapor concentrations may cause irritation developing allergy symptoms to this product.	

SKIN SENSITIZATION:	May	/ cause	allergic sk	in reaction.	Category	1
---------------------	-----	---------	-------------	--------------	----------	---

Diglycidyl ether bisphenol-A in animal mutagenicity studies were negative. In vitro mutagenicity tests were negative in some cases and positive in others.

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.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):...... Not classified. Does not meet STOT SE criteria. SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): Not classified. Does not meet STOT RE criteria.

12. ECOLOGICAL INFORMATION

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.

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
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	Aquatic Chronic Cat. 2

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

ICAO/IATA

UN NUMBER:	UN 3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Class 9.

PACKING GROUP:	PG III.
MARINE POLLUTANT:	Yes

IMDG

IMDG	
UN NUMBER:	. UN 3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	Epoxy Resin.
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 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	

Canada WHMIS Confidential Business Information (CBI):..... The HMIRA number issued for this CBI claim is #10277. The date of filing is 2016-08-09.

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	< 15ppm	¹ CA

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

16. OTHER INFORMATION

PREPARED BY:	G. M. House
APPROVED BY:	G. M. House
TITLE:	Health, Safety & Environmental Manager
SDS VERSION:	

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

Information in this document is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Gougeon Brothers, Inc. The data on this sheet is related only to the specific material designated herein. Gougeon Brothers, Inc. assumes no legal responsibility for use or reliance upon these data.

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	.WEST SYSTEM [®] G/flex [®] 650 Part B Hardener
APPLICABLE PRODUCT CODES:	
CHEMICAL FAMILY:	
INTENDED PRODUCT USES:	. Curing agent for epoxy resins.
PRODUCT RESTRICTIONS:	
SDS VERSION:	.650B-2016c

2. HAZARDS IDENTIFICATION

Classification of Substance or Mixture

Skin corrosion/irritation, Category 2 Skin sensitizer, Category 1 Eye damage/irritation, Category 1

Label Elements

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statements:

H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage

Precautionary Statements:

Prevention

P261 Avoid breathing dust/fumes/gas/mists/vapors/spray P264 Wash hands thoroughly after handling P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection <u>Response</u> P302 + P352 IF ON SKIN: Wash with plenty of water and soap. 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 skin irritation persists: Get medical attention/advice P362 + P364 Take off contaminated clothing and wash it before reuse <u>Disposal</u> P501 Dispose of contents and container according to local, state, national and international regulations

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	CONCENTRATION (%)
ATBN polymer	68683-29-4	30-60
Non-hazardous	Not Available	10-30
Triethylenetetramine	112-24-3	1-10

Benzene-1,3-dimethanamine	1477-55-0	1-10
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	1-5
Tris-2, 4, 6-(dimethylaminomethyl) phenol	90-72-2	1-5
Aminoethylpiperazine	140-31-8	1-5
Tetraethylenepentamine	112-57-2	1-5

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as a trade secret. Ingredient ranges provided may represent actual concentration ranges. Any ingredient not disclosed may have been determined not to pose a health or environmental hazard, or may only be present in concentrations that do not require disclosure. Refer to Section 15 for additional information regarding a WHMIS CBI claim.

FIRST AID MEASURES

immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Immediately call a POISON CONTROL CENTER or doctor.

allergic skin reaction and sensitization. RESPONSE: Immediately wash skin with soap and water. Seek medical advice is effects develop and persist.

system effects. RESPONSE: Remove to fresh air if effects occur and keep comfortable for breathing. Seek medical assistance is effects develop and persist.

RESPONSE: Rinse mouth with water. DO NOT induce vomiting. If vomiting should occur, keep airway clear. Immediately call POISON CONTROL CENTER or doctor.

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: oxides of nitrogen, oxides of carbon, volatile amines, ammonia, nitric acid, aldehydes, nitrosamines. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

vapor or mists may be susceptible to spontaneous combustion when mixed with air. Ignition temperatures decreases with vapor volume and vapor/air contact time, and are influence by pressure changes. Therefore, ignition may occur below published ignition temperatures. Use of this product in processes involving elevated temperatures, vacuum (if subject to sudden ingress of air), or sudden escape of vapor or mist, etc., must be thoroughly evaluated to ensure a safe operation.

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.

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.

MITIGATION AND CLEAN UP PROCEDURES: Stop leak without additional risk. Isolate area. Dike and absorb with inert 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

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.

1910.134 or other applicable respiratory protection standard.

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

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

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

exposures below established limits. When ventilation cannot be made adequate enough to keep exposures 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

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
ATBN polymer	68683-29-4	No data available
Non-hazardous	Not Available	No data available
Triethylenetetramine	112-24-3	AIHA WEEL: 1 ppm ; 6 mg/ m3; Absorbed via skin
		0.1 mg/m3 SKIN, Ceiling NIOSH; OSHA Z1A
Benzene-1,3-dimethanamine	1477-55-0	Remarks: potential for skin absorption
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
Tris-2, 4, 6-(dimethylaminomethyl) phenol	90-72-2	No data available
Aminoethylpiperazine	140-31-8	No data available
Tetraethylenepentamine	112-57-2	AIHA WEEL: 1 ppm ; 5 mg/ m3; SKIN, DSEN

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid.
PHYSICAL FORM:	Caramel colored.
ODOR:	Amine-like odor
ODOR THRESHOLD:	No data available.
рН	10.96
MELTING POINT / FREEZING POINT	
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)	
VAPOR PRESSURE	No data available.
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	
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:	19,587 (mm²/s @ 20°C)
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 resin	and hardener system is listed below.

	VOC Content	
Resin/Hardener	<u>(g/L)</u>	(lbs/gal)
650A/650B	8.6	0.07

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.

nitrosamines.

11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
ATBN polymer	68683-29-4	>15,400 mg/kg	>3000 mg/kg	No data available
Non-hazardous	Not Available	No data available	No data available	No data available
Triethylenetetramine	112-24-3	1716 mg/kg	1465 mg/kg	No data
		980 mg/kg	2000 mg/kg	1.34 mg/l 4h mist /
Benzene-1,3-dimethanamine	1477-55-0			aerosol
Phenol, 2,4,6-tris[(dimethylamino)methyl]		1716 mg/kg (reference	1465 mg/kg	No data
reaction products with triethylenetetramine	1101788-77-5	Triethylenetetramine)		
Tris-2, 4, 6-(dimethylaminomethyl) phenol	90-72-2	2169 mg/kg	No data available	No data available
Aminoethylpiperazine	140-31-8	2097 mg/kg	866 mg/kg	No data
Tetraethylenepentamine	112-57-2	2140 - 3990 mg/kg	660-1260 mg/kg	No data

based on acute toxicity estimation methods using ingredient data.

Oral: Not classified. Based on available data product does not meet acute dermal toxicity classification criteria. Ingestion may result in gastrointestinal tract discomfort.

Dermal: Not classified. Based on available data product does not meet acute dermal toxicity classification criteria.

Inhalation: acute inhalation toxicity classification criteria.

product is not corrosive to skin tissue; however, a component in this product is classified as a 1B corrosive.

SERIOUS EYE DAMAGE / IRRITATION:..... Category 1. Causes serious eye damage.

meet classification criteria.

classification criteria.

classification criteria. A component in this product, aminoethylpiperazine (CAS# 140-31-8), showed positive mutagenic effectsj in Sister Chromatid Excange in in-vitro testing, but showed no mutagenic activity in the Ames test, mouse lymphoma (in vitro), or in-vivo micronucleus test (mice) assays.

classification criteria.

classification criteria. However, it is anticipated that inhalation of concentrated vapors or fumes from heated product may cause irritation to the respiratory track and central nervous system effects.

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): Not classified. Based on available data this product does not meet classification criteria.

classification criteria.

OTHER HEALTH HAZARD INFORMATION: None known.

12. ECOLOGICAL INFORMATION

Estimate: Not classified. Does not meet acute aquatic toxicity classification criteria. Avoid release to the environment.

CHRONIC AQUATIC TOXICITY: No specific test data available for the mixture. Calculated Estimate: Not classified. Does not meet chronic aquatic toxicity classification criteria. Avoid release to the environment.

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

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

Ingredient	CAS#	Ecotoxicity Classification Information
ATBN polymer	68683-29-4	No data available
Non-hazardous	Not Available	No data available
Triethylenetetramine	112-24-3	Aquatic Chronic Cat. 3
Benzene-1,3-dimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction		(Reference Triethylenetetramine); Aquatic Chronic Cat.
products with triethylenetetramine	1101788-77-5	3
Tris-2, 4, 6-(dimethylaminomethyl) phenol	90-72-2	Acute Aquatic 3; Chronic Aquatic Cat. 3
Aminoethylpiperazine	140-31-8	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Tetraethylenepentamine	112-57-2	Aquatic Acute Cat. 2; Aquatic Chronic Cat. 2

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:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
MARINE POLLUTANT:	

CANADA TDG

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

IMDG

UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
EmS Number:	Not applicable.
MARINE POLLUTANT	Not applicable.

ICAO/IATA

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

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.

WEST SYSTEM[®] G/flex[®] 650 Part B Hardener

Europe	EINECS or ELINCS	No data available on CAS# 1101788-77-5	
Canada	CEPA (DSL/NDSL)	CAS# 1101788-77-5 listed on NDSL only.	
Australia	AICS	No data available on CAS# 1101788-77-5	
Japan	ENCS	No data available on CAS# 1101788-77-5	
South Korea	KECI	No data available on CAS# 1101788-77-5	
China	IECSC	No data available on CAS# 1101788-77-5	
Philippines	PICCS	No data available on CAS# 1101788-77-5	

Canada WHMIS Confidential Business Information (CBI):..... The HMIRA number issued for this CBI claim is #10443. The date of filing is 2016-10-13.

US EPA SARA TITLE III Reporting and Notification Requirements:

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

US STATE REGULATORY INFORMATION:

The following chemicals 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
Tris-2, 4, 6-(dimethylaminomethyl) phenol	
90-72-2	PA, NJ
Triethylenetetramine	
112-14-3	PA, MA, NJ
Tetraethylenepentamine	
112-57-2	PA, MA, NJ
Benzene-1,3-dimethanamine	
1477-55-0	MA, PA, NJ
Aminoethylepiperazine 140-31-8	
140-31-0	MA, PA, NJ

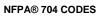
16. OTHER INFORMATION

standard. Updates to Sections 3 and 15 to comply with Canada WHMIS 2015 requirements.		
PREPARED BY:	G. M. House	
APPROVED BY:	G. M. House	
TITLE:	Health, Safety & Environmental Manager	
SDS VERSION:		

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	3
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	





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

Information in this document is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Gougeon Brothers, Inc. The data on this sheet is related only to the specific material designated herein. Gougeon Brothers, Inc. assumes no legal responsibility for use or reliance upon these data.