SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

APPLICABLE PRODUCT CODES:655B, 655-CH, 655-EH 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

703-527-3887 (International)

Non-transportation

HAZARDS IDENTIFICATION 2.

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

Response 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 eye irritation persists: Get medical attention/advice

P362 + P364 Take off contaminated clothing and wash it before reuse

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	30-60
Non-hazardous	Not Available	10-30
Triethylenetetramine	112-24-3	5-10

Benzene-1,3-dimethanamine	1477-55-0	3-7
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	1-5
Synthetic amorphous pyrogenic silica	112945-52-5	1-5
Tris-2, 4, 6-(dimethylaminomethyl) phenol	90-72-2	1-5
Aminoethylpiperazine	140-31-8	1-5
Tetraethylenepentamine	112-57-2	0.1-1.5

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

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

7. HANDLING AND STORAGE

material. Avoid exposure to concentrated vapors. Avoid skin and eye 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.

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, 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
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
		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,
Synthetic amorphous pyrogenic silica	112945-52-5	Respirable
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:	Gel.
COLOR:	
ODOR:	Amine-like odor
ODOR THRESHOLD:	No data available.
рН	10.96
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	No data available.
LOWER EXPLOSIVE LIMIT (LEL)	No data available.
UPPER EXPLOSIVE LIMIT (UEL)	No data available.
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	8.25 lbs./gal. (0.99 kg/L)
VAPOR DENSITY (air = 1)	No data available.
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
DECOMPOSITION TEMPERATURE:	No data available
	ASTM 2369-07 was used to determine the Volatile Matter Content of mixed
anavy racin and hardonar. The combined V/OC content for the racin	and hardener system is listed helow

epoxy resin and hardener. The combined VOC content for the resin and hardener system is listed below.

VOC Co	ontent
<u>(g/L)</u>	(lbs/gal)

Resin/Hardener

655A/655B......7.6

0.06

10. STABILITY AND REACTIVITY

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
Benzene-1,3-dimethanamine	1477-55-0	980 mg/kg	2000 mg/kg	1.34 mg/l 4h mist / aerosol
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
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

acute innalation toxicity classification chief

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

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.

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
Synthetic amorphous pyrogenic silica	112945-52-5	No data available
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: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

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icable.

IMDG

UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
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:	Not applicable.

WEST SYSTEM® G/flex® 655 Part B Hardener

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.
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 for CAS# 1101788-77-5 complete.
Philippines	PICCS	No data available on CAS# 1101788-77-5. 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)	No data available.
Subject to Section 311 or 312	
Subject to Section 313	No data available.

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
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	MA, PA, NJ

16. OTHER INFORMATION

REASON FOR ISSUE: PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE: APPROVAL DATE:	
SUPERSEDES DATE:	January 15, 2019
SDS VERSION:	655B-2022a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

NFPA® 704 CODES

WEST SYSTEM[®] G/flex[®] 655 Part B Hardener





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

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