

# WEST SYSTEM® G/flex® 650 Part B Hardener

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 1/15/2019  
Revision date: 1/3/2022  
Version: 650B-2022a

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : WEST SYSTEM® G/flex® 650 Part B Hardener  
Product code : 650B, 650-CH, 650-EH

#### 1.2. Recommended use and restrictions on use

Recommended use : Curing agent for epoxy resins

#### 1.3. Supplier

##### Manufacturer

Gougeon Brothers, Inc  
100 Patterson Ave.  
Bay City, MI 48706 - U.S.A.  
T 888-377-6738 or 989-684-7286  
[www.prosetepoxy.com](http://www.prosetepoxy.com)

##### Distributor

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300  
CHEMTREC International +1 (703) 527-3887 24 hr

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Skin Irrit. 2  
Eye Dam. 1  
Skin Sens. 1

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.

Precautionary statements (GHS) :

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash hands, forearms and face thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.

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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.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl terminated	CAS-No.: 68683-29-4	30 – 60
Non-hazardous	Non-hazardous	CAS-No.: Not Available	10 – 30
Triethylenetetramine	Triethylenetetramine Araldite hardener HY 951 / N,N'-Bis(2-aminoethyl)-1,2-ethanediamine / N,N'-Bis(2-aminoethyl)ethylenediamine / DEH 24 / Ethane-1,2-diamine, N,N'-bis(2-aminoethyl)- / 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)- / Ethylenediamine, N,N'-bis(2-aminoethyl)- / HY 951 / Trientine / 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- / TETA / 3,6-Diazaoctane-1,8-diamine / 3,6-Diazaoctanethylenediamine / 3,6-Diazaoctane-1,8-diyldiamine	CAS-No.: 112-24-3	5 – 10
1,3-Benzenedimethanamine	1,3-Benzenedimethanamine Benzene, 1,3-di(aminomethyl)- / 1,3-Bis(aminomethyl)benzene / m-Phenylenebis(methylamine) / m-Xylene-.alpha.,.alpha.'-diamine / m-Xylylenediamine / Bis(aminomethyl)benzene, 1,3- / 3-(Aminomethyl)benzylamine / Xylylenediamine, m- / MXDA / .alpha.,.alpha.'-Diamino-1,3-dimethylbenzene / 1,3-Xylenediamine / m-Xylenediamine	CAS-No.: 1477-55-0	3 – 7
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine	Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine	CAS-No.: 1101788-77-5	1 – 5
2,4,6-Tri(dimethylaminomethyl)phenol	2,4,6-Tri(dimethylaminomethyl)phenol	CAS-No.: 90-72-2	1 – 5

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	Phenol, 2,4,6-tris(dimethylaminomethyl)- / Phenol, 2,4,6-tris[(dimethylamino)methyl]- / 2,4,6-Tris(dimethylaminomethyl)phenol / 2,4,6-Tris[(dimethylamino)methyl]phenol / Tris(dimethylaminomethyl)phenol / 2,4,6-Tris(dimethylaminomethyl) phenol / 2,4,6-Tris((dimethylamino)methyl)phenol / Tris(dimethylaminomethyl) phenol / 2,4,6-tris(Dimethylaminomethyl)phenol		
1-Piperazineethanamine	1-Piperazineethanamine N-(2-Aminoethyl)piperazine / 1-(2-Aminoethyl)piperazine / N-Aminoethylpiperazine / 2-Piperazin-1-ylethylamine / Piperazine, 1-(2-aminoethyl)- / Piperazine, N-aminoethyl- / 2-(Piperazin-1-yl)ethylamine / 2-(1-Piperazinyl)ethylamine / Aminoethylpiperazine	CAS-No.: 140-31-8	1 – 5
Tetraethylenepentamine	Tetraethylenepentamine 1,2-Ethanediamine, N-(2-aminoethyl)-N'-((2-aminoethyl)amino)ethyl)- / 3,6,9-Triazaundecamethylenediamine / Undeca-1,11-diamine, 3,6,9-triaza- / 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]- / 1,2-Ethanediamine, N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]- / 3,6,9-Triazaundecane-1,11-diylldiamine / TEPA / 3-Amino-N-(carboxymethyl)-N,N-dimethyl-N-cocoacyl(derivatives)-1-propanaminium inner salt	CAS-No.: 112-57-2	1 – 5

Comments : 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. Refer to Section 15 for additional information regarding this CBI claim.

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. 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.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray or fog for cooling exposed containers.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Do not absorb in sawdust, paper, cloth or other combustible absorbents.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

### 6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. 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.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Contaminated work clothing should not be allowed out of the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from moisture. Storage temperature : 40°F (4°C) - 90°F (32°C).

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Ingredient Name	CAS#	Exposure Limit Information
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	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
1,3-Benzenedimethanamine	1477-55-0	0.1 mg/m3 SKIN, Ceiling NIOSH; OSHA Z1A Remarks: potential for skin absorption
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	(Reference Triethylenetetramine, CAS# 112-24-3) AIHA WEEL: 1 ppm ; 6 mg/ m3; Absorbed via skin
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	No data available
1-Piperazineethanamine	140-31-8	No data available
Tetraethylenepentamine	112-57-2	AIHA WEEL: 1 ppm ; 5 mg/ m3; SKIN, DSEN

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Provide readily accessible eye wash stations and safety showers.
- Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

#### 8.3. Individual protection measures/Personal protective equipment

<b>Hand protection:</b>
Wear chemically resistant protective gloves. Neoprene. Butyl rubber gloves. nitrile-butyl rubber gloves. natural rubber gloves
<b>Eye protection:</b>
Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
<b>Skin and body protection:</b>
Wear suitable protective clothing

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### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid.
Colour	: Caramel
Odour	: Amine-like
Odour threshold	: No data available
pH	: 10.96
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 300 °F (149 °C) estimated based on similar product
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.97
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 19.587 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

VOC content	: 8.6 g/l (0.07 lbs/gal)
Bulk density	: 8.08 lb/gal (0.97 kg/L)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under normal storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.

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### 10.4. Conditions to avoid

Heat. Incompatible materials.

### 10.5. Incompatible materials

Acids. Oxidizing materials. Halogenated compounds.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Nitrogen oxides. Amines. Ammonia. Nitric acid. Nitrosamines.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

#### 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated (68683-29-4)

LD50 oral rat > 15400 mg/kg

LD50 dermal rabbit > 3000 mg/kg

#### Triethylenetetramine (112-24-3)

LD50 oral rat 1716 mg/kg

LD50 dermal rabbit 1465 mg/kg

#### 1,3-Benzenedimethanamine (1477-55-0)

LD50 oral rat 980 mg/kg

LD50 dermal rabbit ≥ 2000 mg/kg

LC50 inhalation 1.34 mg/l 4h mist / aerosol

#### Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5)

LD50 oral rat 1716 mg/kg (Reference Triethylenetetramine)

LD50 dermal rabbit 1465 mg/kg

#### 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)

LD50 oral rat 2169 mg/kg

#### 1-Piperazineethanamine (140-31-8)

LD50 oral rat 2097 mg/kg

LD50 dermal rabbit 866 mg/kg

#### Tetraethylenepentamine (112-57-2)

LD50 oral rat 2140 – 3990 mg/kg

LD50 dermal rabbit 660 – 1260 mg/kg

Skin corrosion/irritation : Causes skin irritation.

pH: 10.96

Serious eye damage/irritation : Causes serious eye damage.

pH: 10.96

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

STOT-repeated exposure : Not classified.

Aspiration hazard : Not classified.

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Viscosity, kinematic 19.587 mm<sup>2</sup>/s

Symptoms/effects after inhalation : May cause respiratory irritation.

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Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Triethylenetetramine (112-24-3)	
LC50 - Fish [1]	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
EC50 - Crustacea [1]	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
1,3-Benzenedimethanamine (1477-55-0)	
LC50 - Fish [1]	87.6 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
EC50 - Crustacea [1]	15.2 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	15 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	4.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
1-Piperazineethanamine (140-31-8)	
LC50 - Fish [1]	1950 – 2460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	32 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	> 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
Tetraethylenepentamine (112-57-2)	
LC50 - Fish [1]	420 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 - Crustacea [1]	24.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Ingredient	CAS#	Ecotoxicity Classification Information
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperaziny)ethyl]amino]butyl-terminated	68683-29-4	No data available
Non-hazardous	Not Available	No data available
Triethylenetetramine	112-24-3	Aquatic Chronic Cat. 3
1,3-Benzenedimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Phenol, 2,4,6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine	1101788-77-5	(Reference Triethylenetetramine); Aquatic Chronic Cat. 3
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	Acute Aquatic 3; Chronic Aquatic Cat. 3
1-Piperazineethanamine	140-31-8	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Tetraethylenepentamine	112-57-2	Aquatic Acute Cat. 2; Aquatic Chronic Cat. 2

### 12.2. Persistence and degradability

WEST SYSTEM® G/flex® 650 Part B Hardener	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

WEST SYSTEM® G/flex® 650 Part B Hardener	
Bioaccumulative potential	Not established.
Triethylenetetramine (112-24-3)	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water	-1.4



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<b>1-Piperazineethanamine (140-31-8)</b>	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water	-1.48

<b>Tetraethylenepentamine (112-57-2)</b>	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water	< 1

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

## SECTION 14: Transport information

### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

UN-No.(DOT/TDG) : Not regulated  
Proper Shipping Name (DOT/TDG) : Not applicable  
Proper Shipping Name - Addition : Not applicable  
Class (DOT/TDG) : Not applicable  
Packing group (DOT/TDG) : Not applicable

### Transport by sea

In accordance with IMDG

UN-No. (IMDG) : Not regulated  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name - Addition : Not applicable  
Class (IMDG) : Not applicable  
Packing group (IMDG) : Not applicable  
EmS-No. (1) : Not applicable  
Marine pollutant : Not applicable

### Transport by air

In accordance with IATA

UN-No. (IATA) : Not regulated  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name - Addition : Not applicable  
Class (IATA) : Not applicable  
Packing group (IATA) : Not applicable  
Marine pollutant : Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List)

Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 01/03/2022

Other information : None.

Prepared by : Nexreg Compliance Inc.

[www.Nexreg.com](http://www.Nexreg.com)

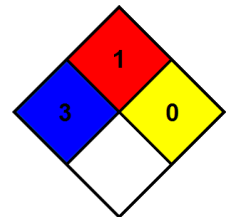


Full text of H-statements	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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<b>Indication of changes:</b>
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SDS update.
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SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2021 (B&W)

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