Safety Data Sheet
WEST SYSTEM® G/flex® 655 Part-A Resin

Revision Date:
6 February, 2026

SECTION 1. IDENTIFICATION

Product identifier

Product Identity	WEST SYSTEM® G/flex® 655 Part-A Resin
Other means of identification	Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name	West System Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A.
Emergency **24 hour Emergency Telephone No.**	Transportation CHEMTREC: 800-424-9300 (U.S.) 703-527-3887 (International) Non-transportation Poison Hotline: 800-222-1222
Customer Service:	866-937-8797 www.westsystem.com

SECTION 2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Skin corrosion/irritation category 2;H315	Causes skin irritation.
Serious eye damage / eye irritation, category 2A;H319	Causes serious eye irritation.
Skin sensitizer category 1;H317	May cause an allergic skin reaction.
Aquatic toxicity (chronic), category 2;H411	Toxic to aquatic life with long lasting effects.

Label elements





Warning

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.

[Prevention]
P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 Wash 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, eye protection, and face protection.
[Response]
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
P337+313 If eye irritation persists: Get medical advice or attention.
P362+364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
[Storage]
No GHS storage statements
[Disposal]
P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin **CAS Number: Proprietary** **Synonyms: Epoxy resin, Diglycidyl bisphenol A resin, Epichlorohydrine, Bisphenol A, PROPANE, 2,2-BIS[P-(2,3-EPOXYPROPOXY)PHENYL]-,POLYMERS, Oxirane, 2,2'-4-butylidenebisphenyleneoxymethylene (DGEBA)**	**65 - 85**	**Skin corrosion/irritation category 2;H315** **Skin sensitizer category 1;H317** **Serious eye damage / eye irritation, category 2;H319** **Aquatic toxicity (chronic), category 2;H411**	**No data available**
Bisphenol F epoxy resin **CAS Number: 28064-14-4** **Synonyms: Bisphenol F nhựa epoxy (av.mol.wt<700)**	**10 - 30**	**Skin corrosion/irritation category 2;H315** **Serious eye damage / eye irritation, category 2;H319** **Skin sensitizer category 1;H317** **Aquatic toxicity (chronic), category 2;H411**	**No data available**
Silicon dioxide, chemically prepared **CAS Number: 112945-52-5** **Synonyms: Amorphous, fumed silica**	**3 - 7**	**Not Classified**	**No data available**
Diglycidyl ether of bisphenol A **CAS Number: 25068-38-6** **Synonyms: Epoxy Resin**	**0.5 - 1.5**	**Serious eye damage / eye irritation, category 2;H319: C ≥ 5 %** **Skin corrosion/irritation category 2;H315: C ≥ 5 %** **Skin sensitizer category 1;H317** **Aquatic toxicity (chronic), category 2;H411**	**No data available**

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically. See section 2 for further details.
Eyes Causes serious eye irritation.
Skin May cause an allergic skin reaction. Causes skin irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.
Avoid breathing dust, fume, gas, mist, vapors, spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

ERG Guide No. ----

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities
Incompatible materials: No available information
See section 2 for further details. - [Storage]

Specific end use(s)
No available information

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
25068-38-6	Diglycidyl ether of bisphenol A	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
Proprietary	1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin	OSHA	No Established Limit

CAS No.	Ingredient	Source	Value
		ACGIH	No Established Limit
		NIOSH	No Established Limit
28064-14-4	Bisphenol F epoxy resin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	OSHA	80 mg/m^3 / %SiO2 (mineral dusts)
		ACGIH	No Established Limit
		NIOSH	6 mg/m^3

Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Paste-like
Color	Cloudy White
Odor	Mild
Odor threshold	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	> 400°F (204°C) Estimated based on ingredient data.
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	>200°F (93°C) Based on ASTM D92 test results from similar product.
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	No available information

Viscosity (cSt)	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapor pressure (Pa)	No available information
Relative Density	1.18
Vapor Density	< 1 mmHg@ 20°C. Estimated based on ingredient data.
Evaporation rate (Ether = 1)	No available information
Oxidising properties	No available information
Explosive properties	No available information
Bulk Density	9.9 lbs./gal. (1.18 kg/L)

Other information
No other relevant information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity
Hazardous Polymerization will not occur.
Chemical stability
Stable under normal circumstances.
Possibility of hazardous reactions
No available information
Conditions to avoid
Avoid high temperatures and contact with incompatible material
Incompatible materials
No available information
Hazardous decomposition products
No hazardous decomposition data available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
1-Chloro-4 Triflurомethyl Bisphenol A Epoxy Resin - (Proprietary)	No data available.	No data available.	No data available.	No data available.	No data available.
Bisphenol F epoxy resin - (28064-14-4)	No data available.	No data available.	No data available.	No data available.	No data available.
Silicon dioxide, chemically prepared - (112945-52-5)	3,160.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Diglycidyl ether of bisphenol A - (25068-38-6)	> 5,000.00, Rat - Category: NA	20,000.00, Rabbit - Category: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
25068-38-6	Diglycidyl ether of bisphenol A	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
Proprietary	1-Chloro-4 Triflurомethyl Bisphenol A Epoxy Resin	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
28064-14-4	Bisphenol F epoxy resin	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 3
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.

Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:
Inhalation, ingestion, skin contact, and skin absorption.
Symptoms and effects, both acute and delayed:
No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically.

Eyes Causes serious eye irritation.
Skin May cause an allergic skin reaction. Causes skin irritation.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Toxic to aquatic life with long lasting effects.
No additional information provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
1-Chloro-4 Triflurомethyl Bisphenol A Epoxy Resin - (Proprietary)	No data available.	No data available.	No data available.
Bisphenol F epoxy resin - (28064-14-4)	9.00, Oncorhynchus mykiss	9.00, Daphnia magna	No data available.
Silicon dioxide, chemically prepared - (112945-52-5)	No data available.	No data available.	No data available.
Diglycidyl ether of bisphenol A - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	No data available.

Persistence and degradability
There is no data available on the preparation itself.
Bioaccumulative potential
No available information
Mobility in soil
No available information
Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.
Other adverse effects
No available information

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Observe all federal, provincial and local regulations when disposing of this substance.

SECTION 14. TRANSPORT INFORMATION



	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	NOT REGULATED	UN3077	UN3077
UN proper shipping name		Environmentally hazardous substance, solid, n.o.s. (Epoxy Resin)	Environmentally hazardous substance, solid, n.o.s. (Epoxy Resin)
Transport hazard class(es)	Class: n/a Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable
Packing group		III	III

Environmental hazards

IMDG Marine Pollutant: Yes; (1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin)

Special precautions for user

No available information

SECTION 15. REGULATORY INFORMATION

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
Proprietary	1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin	Yes	XU	ACTIVE
0028064-14-4	Bisphenol F epoxy resin	Yes	UVCB XU	ACTIVE
0025068-38-6	Diglycidyl ether of bisphenol A	Yes	XU	ACTIVE
0112945-52-5	Silicon dioxide, chemically prepared	No		

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin

Bisphenol F epoxy resin

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:



WARNING: This product can expose you to chemicals including [1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin, Bisphenol F epoxy resin], which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Revision Date 6 February, 2026

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

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.

End of Document

Safety Data Sheet
WEST SYSTEM® G/flex® 655 Part B Hardener

Revision Date:
6 February, 2026

SECTION 1. IDENTIFICATION

Product identifier

Product Identity	WEST SYSTEM® G/flex® 655 Part B Hardener
Other means of identification	Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name	West System Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A.
Emergency **24 hour Emergency Telephone No.**	Transportation CHEMTREC: 800-424-9300 (U.S.) 703-527-3887 (International) Non-transportation Poison Hotline: 800-222-1222
Customer Service: West System **Gougeon Brothers, Inc.**	866-937-8797 www.westsystem.com

SECTION 2. HAZARD(S) IDENTIFICATION

This SDS is aligned with the Workplace Hazardous Materials Information System (WHMIS) and with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Classification of the substance or mixture

Skin corrosion/irritation category 2;H315	Causes skin irritation.
Serious eye damage / eye irritation, category 1;H318	Causes serious eye damage.
Skin sensitizer category 1;H317	May cause an allergic skin reaction.
Aquatic toxicity (chronic), category 4;H413	May cause long lasting harmful effects to aquatic life.

Label elements



Danger

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.

[Prevention]
P260 Do not breathe dust, fume, mist, vapours or spray.
P264 Wash 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+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER, doctor or physician.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
P362+364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
[Storage]
P405 Store locked up.
[Disposal]
P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated CAS Number: 68683-29-4 Synonyms: Poly(acrylonitrile-co-butadiene), amine terminated	45 - 70	Aquatic toxicity (chronic), category 4;H413	----
Triethylene tetramine CAS Number: 112-24-3 Synonyms: Triethylenetetramine	7 - 13	Acute toxicity(dermal), category 4;H312 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412	----
Silicon dioxide, chemically prepared CAS Number: 112945-52-5 Synonyms: Amorphous, fumed silica	3 - 7	Not Classified	----
m-phenylenebis(methylamine) CAS Number: 1477-55-0 Synonyms: 1,3-Benzenedimethanamine, 1,3-bis(aminomethyl)benzene, 1,3-Xylenediamine, alpha,alpha'-Diamino-m-xylene , Diamino-1,3-Xylol , m-Xylene-.alpha., .alpha.'-diamine, M-xylylenediamine, M-크실렌디아민, M. Xylylenđiamin , MXDA	3 - 7	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1B;H317 Aquatic toxicity (chronic), category 3;H412 Serious eye damage / eye irritation, category 1;H318 Acute toxicity(inhalation), category 4;H332	----
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine CAS Number: 1101788-77-5 Synonyms: No available information	3 - 7	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 1;H318 Skin sensitizer category 1;H317	----
2,4,6-Tri(dimethylaminomethyl)phenol CAS Number: 90-72-2 Synonyms: 2,4,6-Tris(dimethylaminomethyl)phenol	1 - 5	Acute toxicity(oral), category 4;H302 Serious eye damage / eye irritation, category 2;H319	----

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
		Skin corrosion/irritation category 2;H315	
1-(2-Aminoethyl) piperazine CAS Number: 140-31-8 Synonyms: 2-piperazin-1-ethylamine, 2-Piperazin-1-ylethylamine	1 - 5	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412 Acute toxicity(dermal), category 3;H311	----
1,5-Pentanediamine, 2-methyl- CAS Number: 15520-10-2 Synonyms: PENTANEDIAMINE, 2-METHYL-	1 - 5	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Serious eye damage / eye irritation, category 1;H318 Acute toxicity(inhalation), category 4;H332	----
Tetraethylenepentamine CAS Number: 112-57-2 Synonyms: No available information	0.5 - 1.5	Acute toxicity(dermal), category 4;H312 Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 2;H411	----

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically. See section 2 for further details.
Eyes Causes serious eye damage.
Skin May cause an allergic skin reaction. Causes skin irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.
Do not breathe dust, fume, mist, vapours or spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities
Incompatible materials: No available information
See section 2 for further details. - [Storage]

Specific end use(s)
No available information

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit

CAS No.	Ingredient	Source	Value
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
112-24-3	Triethylene tetramine	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	0.5 ppm TWA; 3 mg/m^{3}TWA
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
112-57-2	Tetraethylenepentamine	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit

CAS No.	Ingredient	Source	Value
		Yukon	No Established Limit
140-31-8	1-(2-Aminoethyl) piperazine	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
1477-55-0	m-phenylenebis(methylamine)	ACGIH	TWA C 0.018 ppm
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
15520-10-2	1,5-Pentanediamine, 2-methyl-	ACGIH	No Established Limit

CAS No.	Ingredient	Source	Value
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
68683-29-4	2-propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit

CAS No.	Ingredient	Source	Value
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
1101788-77-5	Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit

Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin	Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Gel
Color	Carmel
Odor	Amine-like
Odor threshold	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	No available information
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	> 300°F(149°C) estimated based similar product
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	No available information
Viscosity (cSt)	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	No available information
Relative Density	.99
Vapour Density	No available information
Evaporation rate (Ether = 1)	No available information
VOC Content	655A/655B - 7.6 (g/L)
Oxidising properties	No available information
Explosive properties	No available information
Bulk Density	8.25 lbs./gal. (0.99 kg/L)

Other information
No other relevant information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity
Hazardous Polymerization will not occur.
Chemical stability
Stable under normal circumstances.
Possibility of hazardous reactions
No available information
Conditions to avoid
Avoid high temperatures and contact with incompatible material
Incompatible materials
No available information
Hazardous decomposition products
No hazardous decomposition data available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
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.	No data available.	No data available.	No data available.	No data available.
Triethylene tetramine - (112-24-3)	2,780.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Silicon dioxide, chemically prepared - (112945-52-5)	3,160.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
m-phenylenebis(methylamine) - (1477-55-0)	930.00, Rat - Category: 4	> 3,100.00, Rat - Category: NA	No data available.	1.60, Rat - Category: 4	No data available.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine - (1101788-77-5)	No data available.	No data available.	No data available.	No data available.	No data available.
2,4,6-Tri(dimethylaminomethyl)phenol - (90-72-2)	2,169.00, Rat - Category: 4	No data available.	No data available.	No data available.	No data available.
1-(2-Aminoethyl) piperazine - (140-31-8)	> 1,000.00, Rat - Category: NA	866.00, Rat - Category: 3	No data available.	No data available.	No data available.
1,5-Pentanediamine, 2-methyl- - (15520-10-2)	1,690.00, Rat - Category: 4	No data available.	No data available.	No data available.	No data available.
Tetraethylenepentamine - (112-57-2)	500.00, Point Estimate - Category: 4	1,100.00, Point Estimate - Category: 4	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	IARC	No
		ACGIH	No Established Limit
112-24-3	Triethylene tetramine	IARC	No
		ACGIH	No Established Limit
112-57-2	Tetraethylenepentamine	IARC	No
		ACGIH	No Established Limit
140-31-8	1-(2-Aminoethyl) piperazine	IARC	No
		ACGIH	No Established Limit
1477-55-0	m-phenylenebis(methylamine)	IARC	No
		ACGIH	No Established Limit
15520-10-2	1,5-Pentanediamine, 2-methyl-	IARC	No
		ACGIH	No Established Limit
68683-29-4	2-propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	IARC	No
		ACGIH	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	IARC	Group 3
		ACGIH	No Established Limit
	Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine	IARC	No

CAS No.	Ingredient	Source	Value
1101788-77-5		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:
Inhalation, ingestion, skin contact, and skin absorption.
Symptoms and effects, both acute and delayed:
No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
May cause long lasting harmful effects to aquatic life.
No additional information provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
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.	No data available.	No data available.
Triethylene tetramine - (112-24-3)	495.00, Pimephales promelas	33.90, Daphnia magna	20.00, Selenastrum capricornutum

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Silicon dioxide, chemically prepared - (112945-52-5)	No data available.	No data available.	No data available.
m-phenylenebis(methylamine) - (1477-55-0)	87.60, Oryzias latipes	28.00, Daphnia magna	20.30, raphidocelis subcapitata
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine - (1101788-77-5)	No data available.	No data available.	No data available.
2,4,6-Tri(dimethylaminomethyl)phenol - (90-72-2)	No data available.	No data available.	No data available.
1-(2-Aminoethyl) piperazine - (140-31-8)	100.00, Oncorhynchus mykiss	32.00, Daphnia magna	495.00, Pseudokirchneriella subcapitata
1,5-Pentanediamine, 2-methyl- - (15520-10-2)	216.00, Leuciscus idus	50.00, Daphnia magna	101.00, Pseudokirchnerella subcapitata
Tetraethylenepentamine - (112-57-2)	420.00, Poecilia reticulata	24.00, Daphnia magna	2.00, Pseudokirchneriella subcapitata

Persistence and degradability
There is no data available on the preparation itself.
Bioaccumulative potential
No available information
Mobility in soil
No available information
Results of PBT and vPvB assessment
This product contains no PBT/vPvB/vPvM chemicals.
Other adverse effects
No available information

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

SECTION 14. TRANSPORT INFORMATION

	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	**Class:** **Sub Class:**Not Applicable	**Class:** **Sub Class:**Not Applicable	**Class:** **Sub Class:**Not Applicable
Packing group			

Environmental hazards

IMDG Marine Pollutant: No;

Special precautions for user

No available information

SECTION 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) and the SDS contains all of the information required by those regulations.

Canadian Domestic Substance List (DSL):

1,5-Pentanediamine, 2-methyl-

2,4,6-Tri(dimethylaminomethyl)phenol

1-(2-Aminoethyl) piperazine

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

m-phenylenebis(methylamine)

Silicon dioxide, chemically prepared

Tetraethylenepentamine

Triethylene tetramine

Canadian Non-Domestic Substance List (NDSL):

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

SECTION 16. OTHER INFORMATION

Revision Date 6 February, 2026

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

End of Document