Safety Data Sheet
WEST SYSTEM® 105 Epoxy Resin

Revision Date:
5 December, 2025

SECTION 1. IDENTIFICATION

Product identifier

Product Identity	WEST SYSTEM® 105 Epoxy 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
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers **CAS Number: Proprietary** **Synonyms: No available information**	**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**
Benzyl alcohol **CAS Number: 100-51-6** **Synonyms: No available information**	**10 - 30**	**Acute toxicity(inhalation), category 4;H332** **Acute toxicity(oral), category 4;H302** **Skin sensitizer category 1B;H317** **Serious eye damage / eye irritation, category 2;H319**	**No data available**
Bisphenol F epoxy resin **CAS Number: 28064-14-4** **Synonyms: Bisphenol F nhựa epoxy (av.mol.wt<700)**	**7 - 13**	**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**

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.

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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
100-51-6	Benzyl alcohol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
Proprietary	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	OSHA	No Established Limit
		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

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 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	Clear colorless viscous
Color	Colorless
Odor	Mild
Odor threshold	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	> 400°F (204°C).
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	>205°F (96°C). Estimated based on ingredient data.
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	1.15
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
Oxidising properties	No available information
Explosive properties	No available information
Kinematic Viscosity	869.5 mm2/s @ 20°C
Bulk Density	9.6 lb./gal. (1.15 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 Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers - (Proprietary)	No data available.	No data available.	No data available.	No data available.	No data available.
Benzyl alcohol - (100-51-6)	1,200.00, Rat - Category: 4	> 2,000.00, Rabbit - Category: NA	No data available.	4.18, Rat - Category: 4	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.

Carcinogen Data

CAS No.	Ingredient	Source	Value
100-51-6	Benzyl alcohol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
Proprietary	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	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

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
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers - (Proprietary)	No data available.	No data available.	No data available.
Benzyl alcohol - (100-51-6)	460.00, Pimephales promelas	230.00, Daphnia magna	770.00, Pseudokirchnerella subcapitata
Bisphenol F epoxy resin - (28064-14-4)	9.00, Oncorhynchus mykiss	9.00, 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	UN3082	UN3082	UN3082
UN proper shipping name	Not Regulated	Environmentally hazardous substance, liquid, n.o.s.	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	Class: Not Applicable Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable
Packing group	Not Applicable	III	III

Environmental hazards

IMDG Marine Pollutant: Yes; (Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers)

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
0000100-51-6	Benzyl alcohol	Yes		ACTIVE
0028064-14-4	Bisphenol F epoxy resin	Yes	UVCB XU	ACTIVE
Proprietary	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	Yes	XU	

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%):

Bisphenol F epoxy resin

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers

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 [Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers], which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Revision Date 5 December, 2025

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

End of Document

Safety Data Sheet
WEST SYSTEM® 205 Fast Hardener

Revision Date:
20 February, 2026

SECTION 1. IDENTIFICATION

Product identifier

Product Identity	WEST SYSTEM® 205 Fast 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:	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)

Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Acute toxicity(dermal), category 4;H312	Harmful in contact with skin.
Skin corrosion/irritation category 1B;H314	Causes severe skin burns and eye damage.
Serious eye damage / eye irritation, category 1;H318	Causes serious eye damage.
Skin sensitizer category 1;H317	May cause an allergic skin reaction.
Germ cell mutagenicity, category 2;H341	Suspected of causing genetic defects.

Specific target organ toxicity, repeated exposure category 2;H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic toxicity (acute), category 1;H400	Very toxic to aquatic life.
Aquatic toxicity (chronic), category 1;H410	Very toxic to aquatic life with long lasting effects.

Label elements



Danger

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

[Prevention]
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust, fume, mist, vapors or spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection.
[Response]
P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
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.
P308+313 IF exposed or concerned: Get medical advice or attention.
P310 Immediately call a POISON CENTER, doctor or physician.
P312 Call a POISON CENTER, doctor or physician if you feel unwell.
P314 Get Medical advice or attention if you feel unwell.
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.
P391 Collect spillage.
[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 OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol **CAS Number: 32610-77-8** **Synonyms: Teta, reaction products with phenol / formaldehyde**	**45 - 70**	**Not Classified**	**No data available**
Tetraethylenepentamine **CAS Number: 112-57-2** **Synonyms: No available information**	**10 - 30**	**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**	**No data available**
Amines, polyethylenepoly- **CAS Number: 68131-73-7** **Synonyms: No available information**	**10 - 30**	**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 (acute), category 1;H400** **Aquatic toxicity (chronic), category 1;H410**	**No data available**

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
3,6,9,12-tetra-azatetradecamethylenediamine CAS Number: 4067-16-7 Synonyms: 3,6,9,12-tetraazatetradecane-1,14-diamine	10 - 30	Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (acute), category 1;H400 Aquatic toxicity (chronic), category 1;H410 Acute toxicity(oral), category 4;H302 Acute toxicity(dermal), category 4;H312	No data available
Amines, polyethylenepoly-, triethylenetetramine fraction CAS Number: 90640-67-8 Synonyms: No available information	7 - 13		No data available
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	No data available
1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane CAS Number: 26950-63-0 Synonyms: Triethylenetetramine, reaction product	7 - 13	Serious eye damage / eye irritation, category 2;H319	No data available
Phenol CAS Number: 108-95-2 Synonyms: No available information	5 - 10	Germ cell mutagenicity, category 2;H341 Acute toxicity(inhalation), category 3;H331 Acute toxicity(dermal), category 3;H311 Acute toxicity(oral), category 3;H301 Specific target organ toxicity, repeated exposure category 2;H373 Skin corrosion/irritation category 1B;H314: C ≥ 3 % Skin corrosion/irritation category 2;H315: 1 % ≤ C < 3 % Serious eye damage / eye irritation, category 2;H319: 1 % ≤ C < 3 %	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.
Reproductive or genetic defect hazard. Treat symptomatically. See section 2 for further details.
Eyes Causes serious eye damage.
Skin Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.
Ingestion Harmful if swallowed.

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, vapors 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.

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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
108-95-2	Phenol	OSHA	5 ppm, 19 mg/m^3
		ACGIH	TWA: 5 ppm
		NIOSH	TWA 5 ppm (19 mg/m^3) C 15.6 ppm (60 mg/m^3) [15-minute] [skin]
112-24-3	Triethylene tetramine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
112-57-2	Tetraethylenepentamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
4067-16-7	3,6,9,12-tetra-azatetradecamethylenediamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
26950-63-0	1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
32610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

CAS No.	Ingredient	Source	Value
68131-73-7	Amines, polyethylenepoly-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	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. 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	Liquid
Color	Amber
Odor	Amoniacal
Odor threshold	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	> 400°F (204°C)
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	Estimated > 200°F (93°C) estimated based on ingredient data.
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	1.05
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
VOC Content	Resin/Hardener (g/L) (lb/gal) 105 / 205 7.91 0.07
Oxidising properties	No available information
Explosive properties	No available information
Bulk Density	8.85 lbs./gal. (1.06 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 Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol - (32610-77-8)	No data available.	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.
Amines, polyethylenepoly- - (68131-73-7)	1,400.00, Rat - Category: 4	1,720.00, Rabbit - Category: 4	No data available.	No data available.	No data available.
3,6,9,12-tetra-azatetradecamethylenediamine - (4067-16-7)	1,591.40, Rat - Category: 4	1,720.00, Rabbit - Category: 4	No data available.	No data available.	No data available.
Amines, polyethylenepoly-, triethylenetetramine fraction - (90640-67-8)	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.
1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane - (26950-63-0)	No data available.	No data available.	No data available.	No data available.	No data available.
Phenol - (108-95-2)	282.00, Rat - Category: 3	630.00, Rat - Category: 3	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
108-95-2	Phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 3
		ACGIH	A4
112-24-3	Triethylene tetramine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
112-57-2	Tetraethylenepentamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit

CAS No.	Ingredient	Source	Value
4067-16-7	3,6,9,12-tetra-azatetradecamethylenediamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
26950-63-0	1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
32610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
68131-73-7	Amines, polyethylenepoly-	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	4	Harmful in contact with skin.
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
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	2	Suspected of causing genetic defects.
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
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.
Reproductive or genetic defect hazard. Treat symptomatically.

Eyes Causes serious eye damage.
Skin Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.
Ingestion Harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Very toxic to aquatic life.
Very 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
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol - (32610-77-8)	No data available.	No data available.	No data available.
Tetraethylenepentamine - (112-57-2)	420.00, Poecilia reticulata	24.00, Daphnia magna	2.00, Pseudokirchneriella subcapitata
Amines, polyethylenepoly- - (68131-73-7)	No data available.	2.20, Daphnia magna	0.50, Algae
3,6,9,12-tetra-azatetradecamethylenediamine - (4067-16-7)	0.10, Poecilia reticulata	17.50, Daphnia magna	1.70, Algae
Amines, polyethylenepoly-, triethylenetetramine fraction - (90640-67-8)	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
1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane - (26950-63-0)	No data available.	No data available.	No data available.
Phenol - (108-95-2)	3.73, Oncorhynchus gorbuscha	3.29, Ceriodaphnia dubia	46.42, 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





	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN2735	UN2735	UN2735
UN proper shipping name	Not Regulated	Polyamines, liquid, corrosive, n.o.s. (Contains Triethylenetetramine)	Polyamines, liquid, corrosive, n.o.s. (Contains Triethylenetetramine)
Transport hazard class(es)	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable
Packing group	III	III	III

Environmental hazards

IMDG Marine Pollutant: Yes; (Tetraethylenepentamine)

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
0026950-63-0	1,2-ethanediamine, n,n'-bis(2-aminoethyl)-, polymer with methyloxirane	Yes	XU	ACTIVE
0004067-16-7	3,6,9,12-tetra-azatetradecamethylenediamine	Yes		ACTIVE
0068131-73-7	Amines, polyethylenepoly-	Yes	UVCB XU	ACTIVE
0090640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	No		
0032610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	Yes	XU	ACTIVE
0000108-95-2	Phenol	Yes		ACTIVE
0000112-57-2	Tetraethylenepentamine	Yes		ACTIVE
0000112-24-3	Triethylene tetramine	Yes		ACTIVE

EPCRA 302 Extremely Hazardous:

Phenol

EPCRA 313 Toxic Chemicals:

Phenol

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

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:
This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

Revision Date 20 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:

H301 Toxic if swallowed.

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.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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