Safety Data Sheet
WEST SYSTEM® 209 Extra Slow Hardener

Revision Date:
22 December, 2025

SECTION 1. IDENTIFICATION

Product identifier

Product Identity	WEST SYSTEM® 209 Extra Slow 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.
Skin corrosion/irritation category 1;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.

Specific target organ toxicity, Single exposure category 3;H335	May cause respiratory irritation.
Specific target organ toxicity, repeated exposure category 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (kidneys)
Aquatic toxicity (chronic), category 3;H412	Harmful to aquatic life with long lasting effects.

Label elements





Danger

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

[Prevention]
P233 Keep container tightly closed.
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.
P271 Use only outdoors or in a well-ventilated area.
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.
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.
[Storage]
P403+233 Store in a well ventilated place. Keep container tightly closed.
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
Tall oil fatty acids, reaction product with tetraethylene pentamine **CAS Number: 68953-36-6** **Synonyms: Tofa, reaction product with tepa**	**30 - 60**	**Skin corrosion/irritation category 2;H315** **Skin sensitizer category 1;H317** **Serious eye damage / eye irritation, category 2;H319** **Specific target organ toxicity, Single exposure category 3;H335**	**No data available**
4,4'-Diaminodicyclohexylmethane **CAS Number: 1761-71-3** **Synonyms: 4,4'-methylenebis(cyclohexylamine), 4,4'-디아미노디시클로헥실메탄, Cyclohexanamine, 4,4'-methylenebis-**	**10 - 30**	**Acute toxicity(oral), category 4;H302** **Skin sensitizer category 1;H317** **Skin corrosion/irritation category 1B;H314**	**No data available**

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Polyoxypropylenediamine CAS Number: 9046-10-0 Synonyms: No available information	10 - 30	Skin corrosion/irritation category 1C;H314 Serious eye damage / eye irritation, category 1;H318 Aquatic toxicity (acute), category 3;H402	No data available
Formaldehyde, polymer with benzenamine, hydrogenated CAS Number: 135108-88-2 Synonyms: polymeric cycloaliphatic amines, 2,4-bis[(4-aminocyclohexyl)methyl]aniline, Copolymer of aniline and formaldehyde, hydrogenated, Methyleneoxide Polymer with Benzenamine, Hydrogenated	10 - 30	Acute toxicity(oral), category 3;H301 Skin corrosion/irritation category 1;H314 Skin sensitizer category 1;H317 Specific target organ toxicity, repeated exposure category 2;H373 Aquatic toxicity (chronic), category 3;H412	No data available
Tetraethylenepentamine CAS Number: 112-57-2 Synonyms: No available information	3 - 7	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
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol CAS Number: 57214-10-5 Synonyms: Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	3 - 7		No data available
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	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.
Inhalation May cause respiratory irritation.
Eyes Causes serious eye damage.
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.
Keep container tightly closed.
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.

ERG Guide No. 154

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: Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.
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
112-57-2	Tetraethylenepentamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

CAS No.	Ingredient	Source	Value
1477-55-0	m-phenylenebis(methylamine)	OSHA	No Established Limit
		ACGIH	TWA C 0.018 ppm
		NIOSH	C 0.1 mg/m^3[skin]
1761-71-3	4,4'-Diaminodicyclohexylmethane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
9046-10-0	Polyoxypropylenediamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
57214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
68953-36-6	Tall oil fatty acids, reaction product with tetraethylene pentamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

Eyes Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin Chemical resistant clothing such as coveralls/apron and boots should be worn. Chemical impervious gloves required.

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) estimated based on similar product.

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 similar product.
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	11.5
Viscosity (cSt)	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapor pressure (Pa)	< 1 mmHg @ 20°C (estimated based on ingredient data).
Relative Density	.96
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
VOC Content	105 / 209- 1.10(g/l)0.01 (lbs./gal)
Oxidising properties	No available information
Explosive properties	No available information
Kinematic Viscosity	67.3 (mm2/s @ 40°C)
Bulk Density	7.99 lbs./gal. (0.96 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
Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.
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
Tall oil fatty acids, reaction product with tetraethylene pentamine - (68953-36-6)	>2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.	No data available.
4,4'-Diaminodicyclohexylmethane - (1761-71-3)	1,000.00, Rat - Category: 4	2,110.00, Rabbit - Category: 5	No data available.	No data available.	No data available.
Polyoxypropylenediamine - (9046-10-0)	2,885.00, Rat - Category: 5	2,980.00, Rabbit - Category: 5	No data available.	No data available.	No data available.
Formaldehyde, polymer with benzenamine, hydrogenated - (135108-88-2)	367.00, Rat - Category: 4	> 1,000.00, Rabbit - Category: NA	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.
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol - (57214-10-5)	No data available.	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.

Carcinogen Data

CAS No.	Ingredient	Source	Value
112-57-2	Tetraethylenepentamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
1477-55-0	m-phenylenebis(methylamine)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No

CAS No.	Ingredient	Source	Value
		ACGIH	No Established Limit
1761-71-3	4,4'-Diaminodicyclohexylmethane	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
9046-10-0	Polyoxypropylenediamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
57214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
68953-36-6	Tall oil fatty acids, reaction product with tetraethylene pentamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	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)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1	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	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	3	May cause respiratory irritation.
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.
No chronic toxicity or long term toxicity information available. Treat symptomatically.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Harmful 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
Tall oil fatty acids, reaction product with tetraethylene pentamine - (68953-36-6)	9.00, Fish (Piscis)	9.00, Daphnia magna	9.00, Algae
4,4'-Diaminodicyclohexylmethane - (1761-71-3)	46.00, Leuciscus idus	6.84, Daphnia magna	140.00, Algae
Polyoxypropylenediamine - (9046-10-0)	15.00, Oncorhynchus mykiss	80.00, Daphnia magna	2.10, Pseudokirchneriella subcapitata
Formaldehyde, polymer with benzenamine, hydrogenated - (135108-88-2)	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
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol - (57214-10-5)	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

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	Polyamines, liquid, corrosive, n.o.s., (4,4'-methylenebis)	Polyamines, liquid, corrosive, n.o.s., (4,4'-methylenebis)	Polyamines, liquid, corrosive, n.o.s., (4,4'-methylenebis)
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: No;

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
0001761-71-3	4,4'-Diaminodicyclohexylmethane	Yes		ACTIVE
0057214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	Yes	PMN; XU	ACTIVE
0135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	Yes	UVCB PMN; XU	ACTIVE
0001477-55-0	m-phenylenebis(methylamine)	Yes		ACTIVE
0009046-10-0	Polyoxypropylenediamine	Yes	XU	ACTIVE
0068953-36-6	Tall oil fatty acids, reaction product with tetraethylene pentamine	Yes	UVCB	ACTIVE
0000112-57-2	Tetraethylenepentamine	Yes		ACTIVE

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%):

Polyoxypropylenediamine

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 [Polyoxypropylenediamine], 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 22 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:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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.

H335 May cause respiratory irritation.

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

H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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