



**Safety Data Sheet
Structure Guard Blue Part B**

**Revision Date:
7 August, 2026**

Section 1. Identification

Product identifier

Product Identity

Structure Guard Blue Part B

Other means of identification

Not Applicable

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

100% solids epoxy coating for rehabilitation and protection of water and wastewater infrastructure.

Details of the supplier of the safety data sheet

Company Name

Quadex, LLC (a Vortex company)
564 W. 9320 S.,
Sandy, UT 84070

Emergency

24 hour Emergency Telephone No.

Domestic Shipments and to Canada: 1-800-633-8253
International Shipments: 1-801-629-0667

Customer Service:

844-782-4832

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 1B;H317

May cause an allergic skin reaction.

Reproductive toxicity, category 2;H361F

Suspected of damaging fertility.

Aquatic toxicity (chronic), category 1;H410

Very toxic 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.

H361f Suspected of damaging fertility.

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+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.
- 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.
- 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 PBT/vPvB/vPvM chemicals.

98-54-4	p-tert-Butyl phenol	Endocrine disruptor
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
p-tert-Butyl phenol CAS Number: 98-54-4 Synonyms: p-tert.butyl phenol	30 - 60	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 1;H318 Aquatic toxicity (chronic), category 1;H410 Reproductive toxicity, category 2;H361F	*PBT/vPvB
1,5-Pentanediamine, 2-methyl- CAS Number: 15520-10-2 Synonyms: PENTANEDIAMINE, 2-METHYL-	10 - 30	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	No data available
m-phenylenebis(methylamine) CAS Number: 1477-55-0	10 - 30	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314	No data available

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-Xylylendiamin, MXDA		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	
AMINES, N-TALLOW ALKYLTRIMETHYLENEDI- CAS Number: 61791-55-7 Synonyms: No available information	7 - 13	Acute toxicity(oral), category 4;H302 Acute toxicity(dermal), category 4;H312 Skin corrosion/irritation category 1B;H314 Serious eye damage / eye irritation, category 1;H318	No data available
Amorphous silica, hydrophobic CAS Number: 67762-90-7 Synonyms: Silicones and siloxanes, dimethyl-, reaction products with silica	3 - 7	Not Classified	No data available
Polyoxypropylenediamine CAS Number: 9046-10-0 Synonyms: No available information	3 - 7	Skin corrosion/irritation category 1C;H314 Serious eye damage / eye irritation, category 1;H318 Aquatic toxicity (acute), category 3;H402	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	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, CO₂, 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.

ERG Guide No. 153

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)

100% solids epoxy coating for rehabilitation and protection of water and wastewater infrastructure.

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
98-54-4	p-tert-Butyl phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
1477-55-0	m-phenylenebis(methylamine)	OSHA	No Established Limit
		ACGIH	TWA C 0.018 ppm
		NIOSH	C 0.1 mg/m ³ [skin]
9046-10-0	Polyoxypropylenediamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
15520-10-2	1,5-Pentanediamine, 2-methyl-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
61791-55-7	AMINES, N-TALLOW ALKYLTRIMETHYLENEDI-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

67762-90-7	Amorphous silica, hydrophobic	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	Liquid
Color	No available information
Odor	No available information
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	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	No available information
Kinematic viscosity	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	No available information
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
Oxidising properties	No available information
Explosive properties	No available information
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
p-tert-Butyl phenol - (98-54-4)	4,000.00, Rat - Category: 5	No data available.	No data available.	5.60, Rat - Category: NA	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.
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.
AMINES, N-TALLOW ALKYLTRIMETHYLENEDI- - (61791-55-7)	5,000.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Amorphous silica, hydrophobic - (67762-90-7)	No data available.	> 2,000.00, Rat - Category: NA	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.

Carcinogen Data

CAS No.	Ingredient	Source	Value
98-54-4	p-tert-Butyl phenol	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
		ACGIH	No Established Limit
9046-10-0	Polyoxypropylenediamine	OSHA	Regulated Carcinogen: No;

15520-10-2	1,5-Pentanediamine, 2-methyl-	NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
		OSHA	Regulated Carcinogen: No;
61791-55-7	AMINES, N-TALLOW ALKYLTRIMETHYLENEDI-	NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
		OSHA	Regulated Carcinogen: No;
67762-90-7	Amorphous silica, hydrophobic	NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
		OSHA	Regulated Carcinogen: No;

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	1B	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	2	Suspected of damaging fertility.
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.

Reproductive or genetic defect hazard. Treat symptomatically.

Inhalation May be harmful if inhaled.

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

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
p-tert-Butyl phenol - (98-54-4)	5.14, Pimephales promelas	3.90, Daphnia magna	No data available.
1,5-Pentanediamine, 2-methyl- - (15520-10-2)	216.00, Leuciscus idus	50.00, Daphnia magna	101.00, Pseudokirchnerella subcapitata

m-phenylenebis(methylamine) - (1477-55-0)	87.60, Oryzias latipes	28.00, Daphnia magna	20.30, raphidocelis subcapitata
AMINES, N-TALLOW ALKYLTRIMETHYLENEDI- - (61791-55-7)	0.10, Danio rerio	0.13, Daphnia magna	No data available.
Amorphous silica, hydrophobic - (67762-90-7)	> 5,000.00, Fish	> 5,000.00, Daphnia magna	> 5,000.00, Algae
Polyoxypropylenediamine - (9046-10-0)	15.00, Oncorhynchus mykiss	80.00, Daphnia magna	2.10, 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 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

Not regulated for packages under 5L (1.3 gallons) or 5.0 kg (11 lbs).



	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN2735	UN2735	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (m-Xylenediamine, Tallow Amine)	Amines, liquid, corrosive, n.o.s. (m-Xylenediamine, Tallow Amine)	Amines, liquid, corrosive, n.o.s. (m-Xylenediamine, Tallow Amine)
Transport hazard class(es)	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable
Packing group	II	II	II
Environmental hazards	IMDG Marine Pollutant: Yes; (p-tert-Butyl phenol)		
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
0015520-10-2	1,5-Pentanediamine, 2-methyl-	Yes		ACTIVE
0061791-55-7	AMINES, N-TALLOW ALKYLTRIMETHYLENEDI-	Yes	UVCB	ACTIVE
0067762-90-7	Amorphous silica, hydrophobic	Yes	UVCB XU	ACTIVE
0001477-55-0	m-phenylenebis(methylamine)	Yes		ACTIVE
0000098-54-4	p-tert-Butyl phenol	Yes		ACTIVE
0009046-10-0	Polyoxypropylenediamine	Yes	XU	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%):

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 7 August, 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.

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.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Disclaimer: The information presented herein is supplied as a guide to those who handles or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

End of Document