

Section 1. Identification**Product identifier****Product Identity**

STRUCTURE GUARD PART A

Other means of identification

Product Code: SE1000 A

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)**

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
Diglycidyl ether of bisphenol A CAS Number: 25068-38-6 Synonyms: Epoxy Resin	65 - 85	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
Barytes CAS Number: 13462-86-7 Synonyms: No available information	7 - 13	Not Classified	No data available
Titanium dioxide CAS Number: 13463-67-7 Synonyms: C47051, C475001	3 - 7	Not Classified	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
Crystalline Silica - Quartz CAS Number: 14808-60-7 Synonyms: Quartz	0.1 - 1	Not Classified	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

Suitable Extinguishing Media: Use water spray, dry chemical, alcohol-resistant foam, or carbon dioxide. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: Do not use direct water jet - may spread the material.

Special hazards arising from the substance or mixture

Hazardous decomposition: Product is not highly flammable but may burn if heated. Decomposition or combustion may produce irritating, corrosive, and/or toxic gases including ammonia, nitrogen oxides, carbon oxides, and organic vapors. Closed containers may rupture when exposed to heat.

Avoid breathing dust, fume, gas, mist, vapors, spray.

Advice for fire-fighters

Wear full protective gear and self-contained breathing apparatus (SCBA). Avoid contact with skin and eyes. Approach fire from upwind to avoid hazardous vapors and corrosive fumes.

At higher temperature vapors can cause pressure buildup in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.

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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

Place in appropriate chemical waste container. Approach suspected leak areas with caution. Call Emergency Response number for advice.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Use personal protective equipment. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition and incompatible materials.

Collect spill with non spark tools.

Incompatible materials: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

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
13462-86-7	Barytes	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
13463-67-7	Titanium dioxide	OSHA	15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction)
		ACGIH	Nanoscale 0.2 mg/m ³ (R) Respirable fraction - finescale 2.5 mg/m ³ ®
		NIOSH	See Appendix A: NIOSH Potential Occupational Carcinogens
14808-60-7	Crystalline Silica - Quartz	OSHA	250/(%SiO ₂ +5) mppcf, 10 (%SiO ₂ +2) mg/m ³
		ACGIH	TWA:0.025 mg/m ³ (R) Respirable fraction
		NIOSH	0.05 mg/m ³ TWA (respirable)
25068-38-6	Diglycidyl ether of bisphenol A	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

Not required for properly ventilated areas. Wear appropriate respirator when ventilation is inadequate.

Eyes

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin

Avoid skin contact. Chemical-resistant gloves and goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

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	Not Provided
Odor	Characteristic
Odor threshold	Not Available
Melting point / freezing point	Not Available
Initial boiling point and boiling range	2500 to 3000 °C
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available
Flash Point	252 °C (486 °F)
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	Not Available
Viscosity (cSt)	Not Available
Solubility in Water	Not Available
Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapor pressure (Pa)	no data
Relative Density	1.423
Vapor Density	Not Available
Evaporation rate (Ether = 1)	Not Available
VOC Content	Not Available
Oxidising properties	No available information
Explosive properties	No available information
Other information	No other relevant information.

Section 10. Stability and reactivity

Reactivity

Hazardous polymerization may occur if product is not handled as per instructions.

Chemical stability

This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

Possibility of hazardous reactions

No available information

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Incompatible materials

Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

Hazardous decomposition products

Product is not highly flammable but may burn if heated. Decomposition or combustion may produce irritating, corrosive, and/or toxic gases including ammonia, nitrogen oxides, carbon oxides, and organic vapors. Closed containers may rupture when exposed to heat.

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
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.
Barytes - (13462-86-7)	15,000.00, Rat - Category: NA	No data available.	No data available.	No data available.	No data available.
Titanium dioxide - (13463-67-7)	> 25,000.00, Rat - Category: NA	No data available.	No data available.	6.82, Rat - Category: NA	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.
Crystalline Silica - Quartz - (14808-60-7)	No data available.	100,000.00 - Category: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
13462-86-7	Barytes	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
13463-67-7	Titanium dioxide	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 2b
		ACGIH	A3
14808-60-7	Crystalline Silica - Quartz	OSHA	Regulated Carcinogen: No;
		NTP	Known: Yes; Suspected: No;
		IARC	No
		ACGIH	A2
25068-38-6	Diglycidyl ether of bisphenol A	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;

67762-90-7	Amorphous silica, hydrophobic	IARC	No
		ACGIH	No Established Limit
		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
Diglycidyl ether of bisphenol A - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	No data available.
Barytes - (13462-86-7)	76,000.00, Oncorhynchus mykiss	No data available.	No data available.
Titanium dioxide - (13463-67-7)	294.00, Oryzias latipes	501.00, Daphnia magna	101.00, Pseudokirchneriella subcapitata
Amorphous silica, hydrophobic - (67762-90-7)	> 5,000.00, Fish	> 5,000.00, Daphnia magna	> 5,000.00, Algae
Crystalline Silica - Quartz - (14808-60-7)	No data available.	No data available.	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

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	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s., (Epoxy resin)	Environmentally hazardous substance, liquid, n.o.s., (Epoxy resin)	Environmentally hazardous substance, liquid, n.o.s., (Epoxy resin)
Transport hazard class(es)	Class: 9 Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable	Class: 9 Sub Class: Not Applicable
Packing group	III	III	III
Environmental hazards	IMDG Marine Pollutant: Yes; (Diglycidyl ether of bisphenol A)		
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
0000077-99-6	1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	Yes		ACTIVE
0067762-90-7	Amorphous silica, hydrophobic	Yes	UVCB XU	ACTIVE
0013462-86-7	Barytes	No		
0014808-60-7	Crystalline Silica - Quartz	Yes		ACTIVE
0025068-38-6	Diglycidyl ether of bisphenol A	Yes	XU	ACTIVE
0001309-48-4	Magnesium oxide	Yes		ACTIVE
0001314-11-0	Strontium oxide (sro)	Yes		ACTIVE
0013463-67-7	Titanium dioxide	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%):

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 May, 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.

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.

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