



**GHS
COMPLIANT**



**WHMIS
CANADA**



**OSHA
COMPLIANT**



**INDUSTRIAL
PROTECTIVE COATING**

This Safety Data Sheet (SDS) provides essential safety, handling, storage, transportation and emergency response information for the Blue Seal Protective Coating System. It has been prepared in accordance with internationally recognized safety communication standards to support industrial users, contractors and project owners.

DOCUMENT INFORMATION

Document No.	SDS-001
Product	Blue Seal Protective Coating
Revision	Version 1.0
Language	English
Prepared by	VERTEX Infrastructure Protection Inc.



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SECTION 1: PRODUCT IDENTIFICATION & HAZARD IDENTIFICATION

1.1 PRODUCT IDENTIFICATION

	Product Name	Blue Seal Protective Coating System
	Product Type	Vinyl Ester Protective Coating
	Recommended Use	Industrial Protective Coating
	Manufacturer	Blue Seal
	Prepared by	VERTEX Infrastructure Protection Inc.
	Emergency Contact	+1 (905) 123-4567 24-Hour Emergency
	Document No.	SDS-001 Version 1.0

1.2 HAZARD IDENTIFICATION

GHS Classification



Flammable
Liquid
Category 3



Irritant
(Skin, Eye)
Category 2



Health Hazard
(STOT SE 3)
Category 3

Hazard Statements

- Flammable liquid and vapor.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

Precautionary Statements (Summary)



Avoid ignition
sources



Wear protective
gloves



Use eye
protection



Use in well-
ventilated
areas



KEY SAFETY MESSAGES



Flammable liquid
and vapor



Avoid prolonged
skin contact



Wear appropriate
PPE



Prevent
environmental
release



Follow local
regulations and
instructions



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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture. The hazardous ingredients contributing to the classification are listed below.

INGREDIENT	CAS NO.	CONCENTRATION (wt%)	GHS CLASSIFICATION
Styrene	100-42-5	20 - 40	Flammable Liquid Cat. 3; Acute Tox. (Inhalation) Cat. 4; Skin Irrit. Cat. 2; Eye Irrit. Cat. 2; STOT SE 3
Vinyl Ester Resin	Proprietary	20 - 40	Skin Irrit. Cat. 2; Eye Irrit. Cat. 2; STOT SE 3
Epoxy Resin	25068-38-6	10 - 30	Skin Irrit. Cat. 2; Eye Irrit. Cat. 2; Skin Sens. Cat. 1
Methyl Ethyl Ketone (MEK)	78-93-3	5 - 15	Flammable Liquid Cat. 2; Eye Irrit. Cat. 2; STOT SE 3
Calcium Carbonate	1317-65-3	5 - 15	Not classified as hazardous
Additives (Proprietary)	—	1 - 5	Not classified as hazardous

For the full text of H-statements, see Section 16.

COMPOSITION NOTES



This coating system contains proprietary resin technology formulated for excellent corrosion protection in demanding environments.



All components are selected to deliver high performance and long-term durability.

SECTION 3: FIRST AID MEASURES

Description of first aid measures

	Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
	Skin Contact	Remove contaminated clothing. Wash affected area thoroughly with soap and water. Get medical attention if irritation or rash develops. Launder clothing before reuse.
	Inhalation	Move person to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
	Ingestion	Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
	Most Important Symptoms/Effects	May cause eye and skin irritation. Inhalation of vapors may cause dizziness, headache, nausea or respiratory irritation.
	Notes to Physician	Treat symptomatically and supportively. No specific antidote. Contact Poison Centre for further advice.



GENERAL



Show this SDS to the doctor in attendance.



Ensure medical personnel are aware of the material involved.



For serious incidents, contact a Poison Centre immediately.



Ensure rescuers use appropriate personal protective equipment.



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SECTION 4: FIRST AID MEASURES (CONTINUED)

Detailed first aid information

	Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
	Skin Contact	Remove contaminated clothing. Wash affected area thoroughly with soap and water. Get medical attention if irritation or rash develops. Launder clothing before reuse.
	Inhalation	Move person to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
	Ingestion	Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
	Most Important Symptoms/Effects	May cause eye and skin irritation. Inhalation of vapors may cause dizziness, headache, nausea or respiratory irritation.
	Notes to Physician	Treat symptomatically and supportively. No specific antidote. Contact Poison Centre for further advice.



FIRE PREVENTION

- Keep away from heat, sparks and open flames.
- No smoking.
- Ground containers during transfer.
- Store in a cool, dry and well-ventilated area.



FIREFIGHTER PROTECTION

- Wear self-contained breathing apparatus (SCBA).
- Wear full protective clothing.
- Use water spray to cool exposed containers.
- Prevent run-off from entering drains or water courses.



EMERGENCY RESPONSE

- Isolate area and keep unnecessary personnel away.
- Prevent product from entering drains, sewers or waterways.
- Follow local emergency procedures.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

	Suitable Extinguishing Media		Unsuitable Extinguishing Media
• Alcohol-resistant foam • Carbon dioxide (CO₂) • Dry chemical • Water fog (for cooling)		• Do not use water jet as an extinguishing medium.	

5.2 Specific Hazards Arising from the Chemical



- Flammable liquid and vapor.
- Vapors may form explosive mixtures with air.
- Containers may rupture or explode when exposed to extreme heat or fire.

5.3 Special Protective Equipment and Precautions for Fire-Fighters



- Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).
- Use water spray to cool fire-exposed containers.
- Prevent run-off from fire control or dilution from entering drains, sewers, or water courses.

5.4 Hazardous Combustion Products



- May include and are not limited to:
- Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Smoke and other toxic gases

IMPORTANT NOTES



Evacuate unnecessary personnel from hazard area.



Use water spray to keep containers cool.



Follow local fire safety regulations and procedures.



Review Section 7 and Section 8 for additional handling and storage information.



Refer to Section 16 for full text of H-statements.



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SECTION 5: FIRE-FIGHTING MEASURES (CONTINUED)

5.1 Suitable Extinguishing Media



- Alcohol-resistant foam
- Carbon dioxide (CO₂)
- Dry chemical
- Water fog (for cooling)

5.2 Unsuitable Extinguishing Media



- Do not use water jet as an extinguishing medium.

5.3 Specific Hazards Arising from the Chemical



- Flammable liquid and vapor.
- Vapors may form explosive mixtures with air.
- Containers may rupture or explode when exposed to extreme heat or fire.
- Hazardous combustion products may be released.

5.4 Hazardous Combustion Products



May include and are not limited to:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Smoke and other toxic gases
- Oxides of nitrogen (NO_x)

5.5 Specific Protective Equipment and Precautions for Fire-Fighters



- Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).
- Use water spray to cool fire-exposed containers.
- Prevent run-off from fire control or dilution from entering drains, sewers, or water courses.

IMPORTANT NOTES



Evacuate unnecessary personnel from hazard area.



Use water spray to keep containers cool.



Follow local fire safety regulations and procedures.



Review Section 7 and Section 8 for additional handling and storage information.



Refer to Section 16 for full text of H-statements.

SECTION 6: ACCIDENTAL RELEASE MEASURES



6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Evacuate non-essential personnel.
- Avoid breathing vapors, mist or spray.
- Avoid contact with skin, eyes and clothing.
- Ensure adequate ventilation.
- Use appropriate personal protective equipment (see Section 8).



6.2 Environmental Precautions

- Prevent product from entering drains, sewers, or water courses.
- Contain and collect spillage.
- Discharge into the environment must be avoided.
- Notify appropriate authorities if product enters the environment.



6.3 Methods and Material for Containment and Cleaning Up

- Contain spillage with inert absorbent material (e.g., sand, earth, vermiculite).
- Collect absorbed material in suitable, closed containers for disposal.
- Wipe up small spills with absorbent cloth or paper.
- Clean contaminated surface with suitable solvent (see Section 13 for disposal).



6.4 Reference to Other Sections

- See Section 7 for handling.
- See Section 8 for personal protective equipment.
- See Section 13 for disposal considerations.

USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye Protection



Protective Gloves



Protective Clothing



Respiratory Protection



Safety Footwear



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SECTION 5: FIRE-FIGHTING MEASURES (CONTINUED)

5.1 Suitable Extinguishing Media



- Alcohol-resistant foam
- Carbon dioxide (CO₂)
- Dry chemical
- Water fog (for cooling)

5.2 Unsuitable Extinguishing Media



- Do not use water jet as an extinguishing medium.

5.3 Specific Hazards Arising from the Chemical



- Flammable liquid and vapor.
- Vapors may form explosive mixtures with air.
- Containers may rupture or explode when exposed to extreme heat or fire.
- Hazardous combustion products may be released.

5.4 Hazardous Combustion Products



May include and are not limited to:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Smoke and other toxic gases
- Oxides of nitrogen (NO_x)

5.5 Specific Protective Equipment and Precautions for Fire-Fighters



- Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).
- Use water spray to cool fire-exposed containers.
- Prevent run-off from fire control or dilution from entering drains, sewers, or water courses.

IMPORTANT NOTES



Evacuate unnecessary personnel from hazard area.



Use water spray to keep containers cool.



Follow local fire safety regulations and procedures.



Review Section 7 and Section 8 for additional handling and storage information.



Refer to Section 16 for full text of H-statements.

SECTION 6: ACCIDENTAL RELEASE MEASURES



6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Evacuate non-essential personnel.
- Avoid breathing vapors, mist or spray.
- Avoid contact with skin, eyes and clothing.
- Ensure adequate ventilation.
- Use appropriate personal protective equipment (see Section 8).



6.2 Environmental Precautions

- Prevent product from entering drains, sewers, or water courses.
- Contain and collect spillage.
- Discharge into the environment must be avoided.
- Notify appropriate authorities if product enters the environment.



6.3 Methods and Material for Containment and Cleaning Up

- Contain spillage with inert absorbent material (e.g., sand, earth, vermiculite).
- Collect absorbed material in suitable, closed containers for disposal.
- Wipe up small spills with absorbent cloth or paper.
- Clean contaminated surface with suitable solvent (see Section 13 for disposal).



6.4 Reference to Other Sections

- See Section 7 for handling.
- See Section 8 for personal protective equipment.
- See Section 13 for disposal considerations.

USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye Protection



Protective Gloves



Protective Clothing



Respiratory Protection



Safety Footwear



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SECTION 6: ACCIDENTAL RELEASE MEASURES (CONTINUED)

	6.5 Spill or Leak Procedures	• Stop leak if safe to do so. • Remove all ignition sources. • Ventilate the area. • Contain spill with inert absorbent material. • Prevent entry into drains, sewers or waterways. • Use non-sparking tools.
	6.6 Large Spills	• Isolate hazardous area and restrict access. • Notify appropriate authorities if required. • Dike area for ahead of liquid spill for later disposal. • Pump into suitable containers. • Dispose of collected material according to Section 13.
	6.7 Small Spills	• Wipe up with absorbent cloth or paper. • Place in a suitable, labeled container. • Clean surface with solvent as permitted (see Section 13).
	6.8 Environmental Precautions	• Prevent product from entering drains, sewers, soil or natural waterways. • Avoid release to the environment. • Report releases as required by local regulations.
	6.9 Reference to Other Sections	• See Section 7 for handling. • See Section 8 for personal protective equipment. • See Section 13 for disposal considerations.

SPILL RESPONSE FLOW



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

	Handle in accordance with good industrial hygiene and safety practices.
	Use only with adequate ventilation.
	Keep away from heat, sparks, open flames and hot surfaces. – No smoking.
	Ground and bond containers during transfer.
	Keep container closed when not in use.
	Avoid contact with skin, eyes and clothing.
	Wash hands thoroughly after handling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

	• Store in a cool, dry, well-ventilated area.
	• Keep away from direct sunlight and extreme heat.
	• Keep container tightly closed.
	• Store away from incompatible materials.

7.3 Incompatible Materials

- Strong oxidizing agents
- Strong acids and alkalis
- Amine compounds
- Halogenated compounds



7.4 Specific End Use(s)

Professional use only. For use as a protective coating system for industrial and infrastructure applications.



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