# SAFETY DATA SHEET

#### **SECTION 1**

#### PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

## ConduCoat Part A

Product Identifier Synonyms Description Recommended Use

None Black Electrically Conductive Epoxy Resin Coating for Direct Buried Metal Structures

COMPANY IDENTIFICATION Supplier

SAE Inc 691 Bayview Drive Barrie, Ontario, Canada L4N 9A5 +1 705 733 3307 www.saeinc.com info@saeinc.com CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

Emergency 24-hour telephone number

SECTION 2

HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE Skin Irritation Cat. 2; H315 Eye Damage Cat. 2; H319 Skin Sensitization Cat. 1; H317 Carcinogenicity Cat. 1; H350

LABELLING Symbols



Signal Word Danger

Hazard Statements

- H315: Causes skin irritation
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction
- H350: May cause cancer

Precautionary Statements

#### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.



#### Response

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment see Section 4 of this SDS. Take off contaminated clothing and wash it before reuse.

#### Storage

Store locked up.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### SECTION 3 | COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 MIXTURE

Chemical Name	CAS No.	Wt. %
Propane, 2,2-Bis[p-(2,3-Epoxypropoxy)phenyl]-, Polymers	25085-99-8	15 – 30
Glycidyl Ether of 3-Alkyl Phenol	171263-25-5	0 - 20
1-Chloro-2,3-Epoxypropane	106-89-8	< 0.5
Other components below reportable levels		61

#### 4.1 EYE

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### 4.2 SKIN

Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.

#### 4.3 INHALATION

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

#### 4.4 INGESTION

Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Call a physician or poison control center immediately.

#### 4.5 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation.

#### 4.6 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.



#### 4.7 GENERAL INFORMATION

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### SECTION 5 | FIRE FIGHTING MEASURES

#### 5.1 SUITABLE EXTINGUISHING MEDIA

Water Fog, Dry Chemical Powder, Foam, or Carbon Dioxide.

#### 5.2 UNSUITABLE EXTINGUISHING MEDIA

Do not use water jet as an extinguisher, as this will spread the fire.

5.3 SPECIFIC HAZARDS ARIZING FROM THE CHEMICAL During fire, gases hazardous to health may be formed.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### 5.5 FIRE FIGHTING EQUIPMENT/INSTRUCTIONS

Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in closed spaces, SCBA.

5.6 SPECIFIC METHODS

Use standard firefighting procedures and consider the hazards of other involved materials.

5.7 GENERAL FIRE HAZARDS

No unusual fire or explosion hazards noted.

#### SECTION 6 | ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

#### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.



#### SECTION 7 | HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### **SECTION 8**

#### EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Ingredient	ACGIH TLV (8-hr. TWA)	U.S. OSHA PEL (8-hr. TWA)
1-CHLORO-2,3-EPOXYPROPANE	0.5 ppm	19 mg/m <sup>3</sup>
(CAS 106-89-8)		5 ppm

#### 8.2 OTHER EXPOSURE LIMITS

Ingredient	NIOSH IDLH (Immediately Dangerous to Life or Health)
1-CHLORO-2,3-EPOXYPROPANE	3.8%
(CAS 106-89-8)	75 ppm

#### 8.3 BIOLOGICAL LIMIT VALUES

No biological exposure limits noted for the ingredient(s).

#### 8.4 EXPOSURE GUIDELINES

8.4.1 US – California OELs: Skin designation

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
8.4.2 US- Minnesota Haz Subs: Skin designation applies

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
Skin designation

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
Can be

8.4.4 US ACGIH Threshold Limit Values: Skin designation

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
Can be

8.4.4 US ACGIH Threshold Limit Values: Skin designation

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
Dange

8.4.5 OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
Can be

#### 8.5 EXPOSURE CONTROLS

8.5.1 Engineering Controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Provide eyewash station.

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Can be absorbed through the skin.

Can be absorbed through the skin.

Danger of cutaneous absorption.

Can be absorbed through the skin

Skin designation applies.



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#### 8.5.2 Personal Protection

Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

#### 8.5.3 Eye / Face Protection

Wear safety glasses with side shields (or goggles).

#### 8.5.4 Skin Protection

8.5.4.1 Hand Protection

Wear appropriate chemical resistant gloves.

8.5.4.2 Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

#### 8.5.5 Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### 8.5.6 Thermal Hazards

Wear appropriate thermal protective clothing, when necessary.

#### 8.5.7 General Hygiene Considerations

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## SECTION 9 | PHYSICAL / CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid
Physical state	Liquid
Form	Liquid
Colour	Black
Odour	Not available
Odour Threshold	Not available
рН	Not available
Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	< 200.0 °F (< 93.3 °C)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper / Lower Flammability or Explosive Limits	
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing

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94 400 cP @ 25 °C

1.3 g/mL @ 25 °C

#### SECTION 10 | STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

Viscosity

Specific Gravity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY Material is stable under normal conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID Contact with incompatible materials.

**10.5 INCOMPATIBLE MATERIALS** Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS No hazardous decomposition products are known.

#### **SECTION 11** | TOXICOLOGICAL INFORMATION

#### 11.1 LIKELY ROUTES OF EXPOSURE

- 11.1.1 Inhalation Prolonged inhalation may be harmful.
- 11.1.2 Skin contact May cause an allergic skin reaction. May be irritating to the skin.
- 11.1.3 Eye contact Causes serious eye irritation.
- 11.1.4 Ingestion Expected to be a low ingestion hazard.



11.2 SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS May cause an allergic skin reaction. Dermatitis. Rash. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Severe eye irritation.

11.3 ACUTE TOXICITY DATA					
Components	Species	Test Results			
1-CHLORO-2,3-EPOX	1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)				
Acute					
Dermal	Rabbit	300 mg/kg			
LD50					
Acute					
Oral	Rat	40 mg/kg			
LD					

11.3.1 Skin Corrosion / Irritation

Prolonged skin contact may cause temporary irritation.

11.3.2 Serious Eye Damage / Irritation

Direct contact with eyes may cause temporary irritation.

11.3.3 Respiratory or Skin Sensitization

11.3.3.1 Respiratory sensitization

Not a respiratory sensitizer.

11.3.3.2 Skin sensitization May cause an allergic skin reaction.

11.3.4 Germ Cell Mutagenicity May cause genetic defects.

11.3.5 Carcinogenicity May cause cancer.

11.3.5.1IARC Monographs. Overall Evaluation of Carcinogenicity1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)2A Probably carcinogenic to humans.

11.3.5.2 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

11.3.5.3 US. National Toxicology Program (NTP) Report on Carcinogens1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8) Reasonably Anticipated to be a Human Carcinogen.

11.3.6 Reproductive Toxicity Not classified.

11.3.7 Specific Target Organ Toxicity – Single Exposure Not classified.

11.3.8 Specific Target Organ Toxicity – Repeated Exposure Not classified.

11.3.9 Aspiration Hazard Not an aspiration hazard.

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#### 11.4 CHRONIC TOXICITY

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

#### SECTION 12 | ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

Contains a substance which causes risk of hazardous effects to the environment.

Product	Species	Test Results
ConduCoat Part A		
Aquatic		
Acute		
Fish LC50	Fish	2394.7368 mg/L, 96 hours estimated
Components	Species	Test Results
1-CHLORO-2,3-EPOXYPROPANE	(CAS 106-89-8)	
Aquatic		
Acute		
Fish LC50	Fathead minnow (Pimephales promelas)	9.1 – 12.3 mg/L, 96 hours

#### 12.2 PERSISTENCE AND DEGRADABILITY

No data is available on the degradability of any ingredients in the mixture.

#### 12.3 BIOACCUMULATION POTENTIAL

12.3.1Partition Coefficient n-octanol/water (log Kow)1-CHLORO-2,3-EPOXYPROPANE0.45

12.4 MOBILITY IN SOIL

No data available.

#### 12.5 OTHER ADVERSE EFFECTS

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### SECTION 13 | DISPOSAL CONSIDERATIONS

#### 13.1 DISPOSAL INSTRUCTIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 13.2 LOCAL DISPOSAL REGULATIONS

Dispose in accordance with all applicable regulation.

#### 13.3 HAZARDOUS WASTE CODE

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### 13.4 WASTE FROM RESIDUES / UNUSED PRODUCTS

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

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#### 13.5 CONTAMINATED PACKAGING

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved wastewater handling site for recycling or disposal.

#### SECTION 14 | TRANSPORT INFORMATION

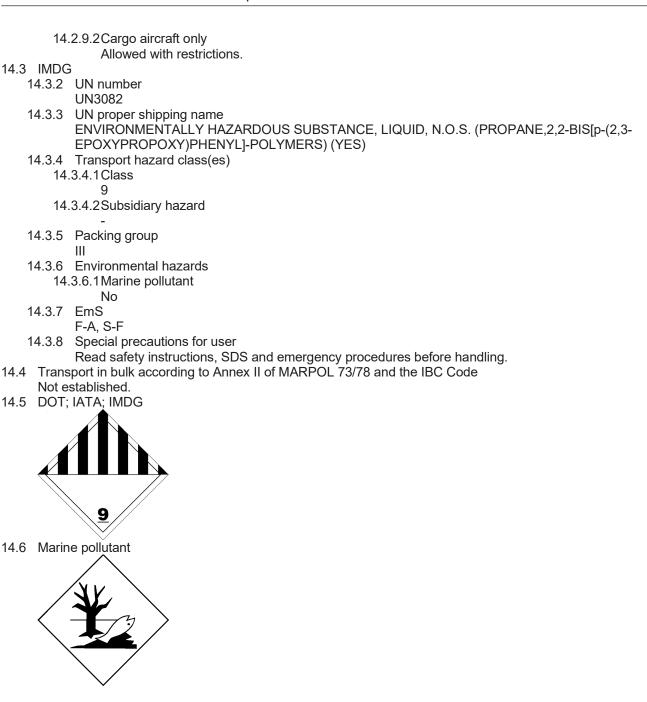
14.1 DOT

- 14.1.1 UN Number
  - UN3082
- 14.1.2 UN Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s., MARINE POLLUTANT (PROPANE,2,2-BIS[p-(2,3-EPOXYPROPOXY)PHENYL]-,POLYMERS)
- 14.1.3 Transport hazard class(es)
  - 14.1.3.1 Class
    - 9
  - 14.1.3.2 Subsidiary hazard
  - 14.1.3.3 Label(s)
    - 9
- 14.1.4 Packing group
  - |||
- 14.1.5 Environmental hazards
  - 14.1.5.1 Marine pollutant
    - Yes
- 14.1.6 Special Precautions for user Read safety instructions, SDS and emergency procedures before handling.
- 14.1.7 Special Provisions
  - 8, 146, 173, 335, IB3, T4, TP1, TP29
- 14.1.8 Packaging Exceptions 155
- 14.1.9 Packaging non bulk 203
- 14.1.10 Packaging bulk
- 241
- 14.2 IATA
  - 14.2.2 UN number
  - UN3082
  - 14.2.3 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (PROPANE,2,2-BIS[p-(2,3-EPOXYPROPOXY)PHENYL]-
    - ,POLYMERS)
  - 14.2.4 Transport hazard class(es)
    - 14.2.4.1Class
    - 9 14242Subsidions b
    - 14.2.4.2Subsidiary hazard
  - 14.2.5 Packing group
    - |||
  - 14.2.6 Environmental hazards
  - YES 14.2.7 ERG Code
  - 9L
  - 14.2.8 Special precautions for user
    - Read safety instructions, SDS and emergency procedures before handling.
  - 14.2.9 Other information
    - 14.2.9.1 Passenger and cargo aircraft Allowed with restrictions

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SECTION 15

### | REGULATORY INFORMATION

15.1 US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

- 15.1.1 Toxic Substances Control Act (TSCA)
  - One or more components of this mixture are not on the TSCA 8(b) inventory or are designated "inactive".
  - 15.1.1.1 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
- 15.1.2 CERCLA Hazardous Substance List (40 CFR 302.4) 1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8) – Listed

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- 15.1.3 SARA 304 Emergency release notification
  - Oxirane, (chloromethyl(-; epichlorohydrin (CAS 106-89-8) 100 lbs
- 15.1.4 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

15.2 Superfund Amendments and Reauthorization Act of 1986 (SARA)

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
1-CHLORO-2,3- EPOXYPROPANE	106-89-8	100	1000		

15.2.1 SARA 302 Extremely hazardous substance

Yes

- 15.2.2 SARA 311/312 Hazardous Chemical
  - 15.2.2.1 Classified hazard categories
    - Skin corrosion or irritation. Serious eye damage or eye irritation. Respiratory or skin sensitization. Carcinogenicity.
- 15.2.3 SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
1-CHLORO-2,3-EPOXYPROPANE	106-89-8	< 0.5

#### 15.3 Other federal regulations

- 15.3.1 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List 1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
- 15.3.2 Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130) 1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)
- 15.3.3 Safe Drinking Water Act (SDWA) Not regulated.
- 15.4 US State Regulations
  - 15.4.1 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8)

- 15.4.2 California Proposition 65
  - WARNING: This product contains a chemical known to the State of California to cause cancer and birth
  - defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- 15.4.3 California Proposition 65-CRT: Listed date/Carcinogenic substance
  - 1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8) Listed: October 1, 1987
- 15.4.4 California Proposition 65-CRT: Listed date/Male reproductive toxin
  - 1-CHLORO-2,3-EPOXYPROPANE (CAS 106-89-8) Listed: September 1, 1996

#### 15.5 International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### SECTION 16 | OTHER INFORMATION

16.1 REVISION DATE October 8, 2024

16.2 NFPA RATINGS



#### 16.3 ADDITIONAL INFORMATION

This safety data sheet is believed to provide a useful summary of the hazards of ConduCoat Part A as it is commonly used but cannot anticipate and provide all the information that might be needed in every situation. It relates specifically to the product designated and may not be valid for the product when used within any other materials or products or in a particular process.

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