

SAFETY DATA SHEET

SECTION 1 | PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Identifier	ConduCoat Part B
Synonyms	None
Description	Black Electrically Conductive Epoxy Hardener
Recommended Use	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
Emergency 24-hour telephone number	CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

SECTION 2 | HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

Acute toxicity, oral Cat. 4; H302
Skin Irritation Cat. 1; H314
Serious Eye Damage Cat. 1; H318
Respiratory Sensitization Cat. 1; H334
Skin Sensitization Cat. 1; H317
Reproductive Toxicity Cat. 2; H361

LABELLING

Symbols



Signal Word
Danger

Hazard Statements

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction
H361: Suspected of damaging fertility or the unborn child.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Do not eat, drink or smoke when using this product.

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Response

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment see Section 4 of this SDS. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.

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. %
1,3-Benzenedimethanamine	1477-55-0	1 - 20
Proprietary Ingredients	N/A	1 - 20
Other components below reportable levels		75.18

SECTION 4 | FIRST AID MEASURES

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

Immediately remove contaminated clothing. 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

Causes serious eye damage. Burning pain and severe corrosive skin damage. May cause respiratory irritation. Difficulty in breathing. Nausea, vomiting. May be harmful if swallowed. May cause an allergic skin reaction. Dermatitis. Rash. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

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.

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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. Keep victim under observation.

SECTION 5 | FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Water Fog, Dry Chemical Powder, Alcohol Resistant 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 ARISING 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. In the event of fire, cool tanks with water spray.

5.6 SPECIFIC METHODS

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. 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.

Components	ACGIH TLV		U.S. OSHA REL	
	Type	Value	Type	Value
1,2-BENZENEDIMETHANAMINE (CAS 144-55-0)	Ceiling	0.018 ppm	Ceiling	0.1 mg/m ³

8.2 BIOLOGICAL LIMIT VALUES

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

8.3 EXPOSURE GUIDELINES

8.3.1 US – California OELs: Skin designation

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin.

8.3.2 US – Tennessee OELs: Skin designation

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin.

8.3.3 US ACGIH Threshold Limit Values: Skin designation

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Danger of cutaneous absorption.

8.3.4 US NIOSH Pocket Guide to Chemical Hazards: Skin designation

1,3-BENZENEDIMETHANAMINE (CAS 1477-55-0) Can be absorbed through the skin

8.4 EXPOSURE CONTROLS

8.4.1 Engineering Controls

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

8.4.2 Personal Protection

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

8.4.3 Eye / Face Protection

Wear safety glasses with side shields (or goggles).

8.4.4 Skin Protection

8.4.4.1 Hand Protection

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

8.4.4.2 Other

Wear appropriate chemical resistant clothing.

8.4.5 Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment..

8.4.6 Thermal Hazards

Wear appropriate thermal protective clothing, when necessary.

8.4.7 General Hygiene Considerations

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.

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	Amine
Odour Threshold	Not available
pH	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
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Not available
Solubility(ies)	
Solubility (water)	Not available

Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition Temperature	Not available
Viscosity	35 200 cP @ 25 °C
Specific Gravity	1.28 g/mL @ 25 °C
Density	10.68 lb/gal

SECTION 10 | STABILITY AND REACTIVITY

10.1 REACTIVITY

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

11.1.2 Skin contact

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

11.1.3 Eye contact

Causes serious eye damage.

11.1.4 Ingestion

Harmful if swallowed.

11.2 SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Difficulty in breathing. Nausea, vomiting. May cause respiratory irritation. Dermatitis. Rash. Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. May cause an allergic skin reaction. Causes serious eye damage. Asthma. Burning pain and severe corrosive skin damage.

11.3 ACUTE TOXICITY DATA

11.3.1 Acute toxicity
Harmful if swallowed.

11.3.2 Skin Corrosion / Irritation
Causes severe skin burns and eye damage.

11.3.3 Serious Eye Damage / Irritation
Causes serious eye damage.

11.3.4 Respiratory or Skin Sensitization

11.3.4.1 Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

11.3.4.2 Skin sensitization

This product is not expected to cause skin sensitization.

11.3.5 Germ Cell Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

11.3.6 Carcinogenicity

Not classifiable as to carcinogenicity to humans.

11.3.6.1 IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

11.3.6.2 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

11.3.6.3 US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

11.3.7 Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

11.3.8 Specific Target Organ Toxicity – Single Exposure

Not classified.

11.3.9 Specific Target Organ Toxicity – Repeated Exposure

Not classified.

11.3.10 Aspiration Hazard

Not an aspiration hazard.

11.4 CHRONIC TOXICITY

Prolonged inhalation may be harmful.

SECTION 12 | ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Not expected to be harmful to aquatic organisms.

Product	Species	Test Results
ConduCoat Part B		
Aquatic <i>Acute</i> Fish LC50	Fish	60.9756 mg/L, 96 hours estimated

12.2 PERSISTENCE AND DEGRADABILITY

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

12.3 MOBILITY IN SOIL

No data available.

12.4 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).

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

UN2735

14.1.2 UN Proper Shipping Name

Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s. (1,3-BENZENEDIMETHANAMINE)

14.1.3 Transport hazard class(es)

14.1.3.1 Class

8

- 14.1.3.2 Subsidiary hazard
 -
- 14.1.3.3 Label(s)
 - 8
- 14.1.4 Packing group
 - III
- 14.1.5 Environmental hazards
 - 14.1.5.1 Marine pollutant
 - No
- 14.1.6 Special Precautions for user
 - Read safety instructions, SDS and emergency procedures before handling.
- 14.1.7 Special Provisions
 - IB3, T7, TP1, TP28
- 14.1.8 Packaging Exceptions
 - 154
- 14.1.9 Packaging non bulk
 - 203
- 14.1.10 Packaging bulk
 - 241
- 14.2 IATA
 - 14.2.2 UN number
 - UN2735
 - 14.2.3 UN proper shipping name
 - Amines, liquid, corrosive, n.o.s. (1,3-BENZENEDIMETHANAMINE)
 - 14.2.4 Transport hazard class(es)
 - 14.2.4.1 Class
 - 8
 - 14.2.4.2 Subsidiary hazard
 -
 - 14.2.5 Packing group
 - III
 - 14.2.6 Environmental hazards
 - YES
 - 14.2.7 ERG Code
 - 8L
 - 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
 - 14.2.9.2 Cargo aircraft only
 - Allowed with restrictions.
- 14.3 IMDG
 - 14.3.2 UN number
 - UN2735
 - 14.3.3 UN proper shipping name
 - AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-BENZENEDIMETHANAMINE), MARINE POLLUTANT
 - 14.3.4 Transport hazard class(es)
 - 14.3.4.1 Class
 - 8
 - 14.3.4.2 Subsidiary hazard
 -
 - 14.3.5 Packing group
 - III
 - 14.3.6 Environmental hazards

14.3.6.1 Marine pollutant

Yes

14.3.7 EmS

F-A, S-B

14.3.8 Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

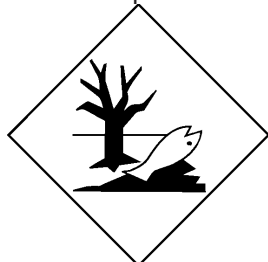
14.5 DOT



14.6 IATA: IMDG



14.7 Marine pollutant



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)

Not listed.

15.1.3 SARA 304 Emergency release notification

Not regulated.

15.1.4 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

15.2 Superfund Amendments and Reauthorization Act of 1986 (SARA)

15.2.1 SARA 302 Extremely hazardous substance

Not listed.

15.2.2 SARA 311/312 Hazardous Chemical

Yes

15.2.2.1 Classified hazard categories

Flammable (gases, aerosols, liquids, or solids). Acute toxicity (any route of exposure). Skin corrosion or irritation. Serious eye damage or eye irritation. Respiratory or skin sensitization.

15.2.3 SARA 313 (TRI reporting)

Not regulated.

15.3 Other federal regulations

15.3.1 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List

Not regulated.

15.3.2 Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)

Not regulated.

15.3.3 Safe Drinking Water Act (SDWA)

Not regulated.

15.4 US State Regulations

15.4.1 California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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
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 10, 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 B 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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