

Canusa-CPS HBE-DX Base

SECTION 1. IDENTIFICATION

Product Identifier	Canusa-CPS HBE-DX Base
Product Family	Epoxy
Recommended Use	The Canusa HBE-DX is a robust liquid epoxy coating system specifically designed to protect field joint girth welds during directional drilling pipeline construction. The formulation presents high properties of gouge resistance, tensile elongation, impact strength and ease of build. Applied as a stand-alone direct-to-steel coating system, HBE-DX has proven to withstand pipe operating temperatures up to 95°C (203°F) with excellent anti-corrosion performance. This environmentally friendly, 100% solids, novolac epoxy system can either be spray applied or brush applied to the intended substrate.
Manufacturer	CANUSA-CPS, A DIVISION OF SHAWCOR LTD., 25 BETHRIDGE ROAD, TORONTO, ON, M9W 1M7, (416) 743-7111
Emergency Phone No.	Canusa, (613) 996-6666 (CANUTEC)

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Eye irritation - Category 2B

Label Elements



Warning

May cause irritation to eyes.

May cause irritation to skin.

May cause irritation to respiratory system.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

Avoid release to the environment.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF ON SKIN: Wash with plenty of water.

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.

Other Hazards

Contains quartz (crystalline silica), which is classified as a carcinogen to humans. Contains small amounts of carbon black; carbon black is listed as a possible human carcinogen by IARC.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Silica, quartz	14808-60-7	15-40	

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Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	15-40	
Propane, 1,3-bis(2,3-epoxypropoxy)-2,2-dimethyl-	17557-23-2	5-10	
Mica	12001-26-2	1-5	
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	1-5	
Titanium dioxide	13463-67-7	1-5	
Formaldehyde, polymer with 1,3-dimethylbenzene	26139-75-3	1-5	
Carbon black	1333-86-4	0.1-1	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Remove contaminated clothing. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Do not induce vomiting. Call Poison Centre or doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water spray; dry chemical; carbon dioxide.

Specific Hazards Arising from the Product

Irritating vapours may be released during decomposition.

Toxic and irritating gases including; oxides of carbon, organic acids, carboxylic acids, aldehydes, alcohols, acrolein, phosphorous oxides, and sulfur oxides.

Special Protective Equipment and Precautions for Fire-fighters

Use a self-contained breathing apparatus and full protective clothing. Do not use direct stream of water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Remove all sources of ignition. Wear appropriate personal protective equipment.

Environmental Precautions

Prevent run-off from entering drains or waterways.

Methods and Materials for Containment and Cleaning Up

Soak up spills with inert absorbent material and place in a suitable closed container; dispose of in compliance with applicable legislation.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate PPE.

Conditions for Safe Storage

Cool, dry environment. Separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Mica	3 mg/m ³		20 ppm			
Carbon black	3 mg/m ³ A3		Not established			

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Black.
Relative Density (water = 1)	1.49 - 1.50
Other Information	
Physical State	Liquid
Molecular Formula	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Avoid strong acids and oxidizers.

Chemical Stability

Normally stable.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Propane, 1,3-bis(2,3-epoxypropoxy)-2,2-dimethyl-		4500 mg/kg (rat)	
Titanium dioxide	> 6820 mg/m ³ (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg (rabbit)
Carbon black	6750 mg/m ³ (4-hour exposure)		

Skin Corrosion/Irritation

May cause irritation.

Serious Eye Damage/Irritation

May cause irritation.

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STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause irritation.

Ingestion

Harmful if swallowed.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
Mica	Not Listed	Not Listed	Not Listed	Not Listed
Propane, 1,3-bis(2,3-epoxypropoxy)-2,2-dimethyl-	Not Listed	Not designated	Not Listed	Not Listed
Siloxanes and Silicones, di-Me, reaction products with silica	Not Listed	Not designated	Not Listed	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
Formaldehyde, polymer with 1,3-dimethylbenzene	Not Listed	Not Listed	Not Listed	Not Listed
Carbon black	Group 2B	A3	Not Listed	Not Listed

All components are completely encapsulated in the product, and are not likely to present a health hazard.

Key to Abbreviations

A2 = Suspected human carcinogen. A4 = Not classifiable as a human carcinogen. Group 2B = Possibly carcinogenic to humans. Group 1 = Carcinogenic to humans. Known carcinogen = Known human carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

None of the components were listed in the Montreal Protocol.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Titanium dioxide	> 10 mg/L (Daphnia pulex (water flea); 48-hour; fresh water; static)	> 100 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in compliance with all federal, state, provincial, municipal and local legislation.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

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Safety, Health and Environmental Regulations

The regulatory information provided is not intended to be comprehensive. Other local, state, provincial, federal international or country specific regulations may apply to this material.

SECTION 16. OTHER INFORMATION

SDS Prepared By SHAWCOR LTD.

Phone No. (416) 743-7111

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