

## MATERIAL SAFETY DATA SHEET

PRODUCT: HBE-95-SG BASE  
REVISION DATE: MAY 23, 2013

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER/SUPPLIER:** CANUSA-CPS, A DIVISION OF SHAWCOR LTD.  
**ADDRESS:** 25 BETHRIDGE ROAD  
**CITY, PROVINCE/STATE:** TORONTO, ONTARIO  
**POSTAL CODE:** M9W 1M7  
**EMERGENCY PHONE NUMBER:** (613) 996-6666 (CANUTEC)  
**INFORMATION NUMBER:** (416) 743-7111

**PRODUCT IDENTITY** **HBE-95-SG BASE**  
(AS USED ON LABEL AND LIST):  
**PRODUCT USE:** COATING FOR PIPELINES  
**PRODUCT I.D. NUMBER (PIN):** NOT AVAILABLE

### SECTION 2 - HAZARDS IDENTIFICATION

**ADVERSE HEALTH EFFECTS:**

MAY CAUSE LUNG DAMAGE, SKIN AND RESPIRATORY SENSITIZATION AND DERMATITIS WITH CHRONIC EXPOSURE

**ENVIRONMENTAL EFFECTS:**

NOT AVAILABLE

**PHYSICAL AND CHEMICAL HAZARDS:**

INCOMPATIBLE WITH STRONG ACIDS, BASES, OXIDIZERS AND AMINES

**SPECIFIC HAZARDS:**

AVOID ELEVATED TEMPERATURES

**CARCINOGENICITY INFORMATION:**

FREE SILICA OR RESPIRABLE SILICA DUST IS LISTED AS A PROBABLE HUMAN CARCINOGEN BY IARC

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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>%</u>	<u>HAZARD SYMBOLS</u>	<u>RISK PHRASES</u>
EPOXY PHENOL NOVOLAC	28064-14-4	15-40	-	-
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	15-40	Xn	R20, R48
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	5-10	Xi	R38, R43
FORMALDEHYDE POLYMER WITH TOLUENE	25155-81-1	5-10	-	-
MICA	12001-26-2	1-5	-	-
HYDROPHOBIC SILICA	67762-90-7	1-5	-	-
TITANIUM DIOXIDE	13463-67-7	1-5	-	-
CARBON BLACK	1333-86-4	0.1-1	Xi, Xn	R 36, R37, R38, R40

## SECTION 4 - FIRST-AID MEASURES

### EYE CONTACT:

FLUSH WITH WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION

### SKIN CONTACT:

WASH WITH SOAP AND WATER FOR 15 MINUTES; SEEK MEDICAL ATTENTION

### INHALATION:

REMOVE TO FRESH AIR; IF BREATHING HAS STOPPED SEEK MEDICAL ATTENTION

### INGESTION:

SEEK IMMEDIATE MEDICAL ATTENTION; DO NOT INDUCE VOMITING

### NOTE TO PHYSICIAN:

NOT AVAILABLE

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## SECTION 5 - FIRE-FIGHTING MEASURES

### SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY; DRY CHEMICAL; FOAM; CARBON DIOXIDE

### FIRE-FIGHTING HAZARDS:

HARMFUL VAPOURS

### FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

USE A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING

### FIRE-FIGHTING PROCEDURES:

FIGHT FIRE FROM A PROTECTED LOCATION

### THERMAL DECOMPOSITION BY-PRODUCTS:

OXIDES OF NITROGEN AND CARBON; ALDEHYDES; ACIDS

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

REMOVE ALL SOURCES OF IGNITION; WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

### ENVIRONMENTAL PRECAUTIONS:

PREVENT RUN-OFF FROM REACHING STORM OR SEWER DRAINS

### METHODS FOR CLEANING UP:

SOAK UP SPILLS WITH INERT ABSORBENT MATERIALS AND PLACE IN A CLOSED CONTAINER

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## SECTION 7 - HANDLING AND STORAGE

### HANDLING REQUIREMENTS:

WEAR PERSONAL PROTECTIVE EQUIPMENT

### STORAGE REQUIREMENTS:

COOL, DRY ENVIRONMENT

### INCOMPATIBLE MATERIALS:

STRONG ACIDS, BASES, OXIDERS AND AMINES

### VENTILATION:

ADEQUATE GENERAL VENTILATION

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

ADEQUATE GENERAL VENTILATION

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

GLOVES/TYPE:	CHEMICAL RESISTANT GLOVES WHEN HANDLING MATERIAL
RESPIRATORY/TYPE:	A NIOSH APPROVED RESPIRATOR IS REQUIRED DURING APPLICATION AND HANDLING WHERE VAPOUR/MIST IS ENCOUNTERED IN THE BREATHING ZONE; A DUST RESPIRATOR IS NECESSARY FOR ANY SANDING OR GRINDING TYPE ACTIVITIES
EYE/TYPE:	SPLASH PROOF CHEMICAL SAFETY GOGGLES
FOOTWEAR:	IMPERVIOUS BOOTS
CLOTHING:	CHEMICAL RESISTANT APRON; ENSURE EXPOSED SKIN IS COVERED

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**INGREDIENT EXPOSURE DATA:**

<u>INGREDIENT</u>	<u>CAS #</u>	<u>LD<sub>50</sub> (species and route)</u>	<u>LC<sub>50</sub> (species and route)</u>	<u>OSHA (PEL) TWA</u>	<u>ACGIH (TLV) TWA</u>
EPOXY PHENOL NOVOLAC	28064-14-4	-	-	-	-
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	-	-	0.1mg/m <sup>3</sup> RESP.	0.025mg/m <sup>3</sup> RESP.
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	4500mg/kg RAT, ORAL	-	-	-
FORMALDEHYDE POLYMER WITH TOLUENE	25155-81-1	-	-	-	-
MICA	12001-26-2	-	-	20 mppcf	: 3 mg/m <sup>3</sup> INHALABLE
HYDROPHOBIC SILICA	67762-90-7	1000mg/kg RAT, ORAL	-	-	-
TITANIUM DIOXIDE	13463-67-7	-	-	15mg/m <sup>3</sup> TOTAL DUST	10mg/m <sup>3</sup> TOTAL DUST
CARBON BLACK	1333-86-4	15400mg/kg RAT, ORAL	-	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL DATA:

PHYSICAL STATE:	LIQUID
FORM:	VISCOUS
COLOUR:	GREY
ODOUR:	FAINT OILY ODOUR
ODOUR THRESHOLD (PPM):	NOT AVAILABLE
BOILING POINT:	>300°C (572 F)
FREEZING POINT:	LESS THAN -5°C (23 F)
MELTING POINT:	NOT AVAILABLE
EVAPORATION RATE:	NOT AVAILABLE
VAPOUR PRESSURE (mmHg):	NEGLIGIBLE
VAPOUR DENSITY (AIR = 1):	NOT AVAILABLE
pH:	NOT AVAILABLE
SPECIFIC GRAVITY (WATER = 1):	1.496
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NOT AVAILABLE
SOLUBILITY IN WATER:	SLIGHT

## SECTION 10 - STABILITY AND REACTIVITY

### CONDITIONS TO AVOID:

ELEVATED TEMPERATURES

### MATERIALS TO AVOID:

STRONG ACIDS, BASES, OXIDIZERS, AMINES

### STABILITY AND REACTIVITY DATA:

STABILITY:	UNSTABLE: _____	STABLE: _____
HAZARDOUS POLYMERIZATION:	WILL OCCUR: _____	WILL NOT OCCUR: <u>  X  </u>

### FLAMMABILITY DATA:

DECOMPOSITION TEMPERATURE:	NOT AVAILABLE
FLASHPOINT:	>93.3°C (212 F)
AUTOIGNITION TEMPERATURE:	NOT AVAILABLE

### HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

OXIDES OF CARBON AND NITROGEN; ALDEHYDES; ACIDS

### EXPLOSION DATA:

STATIC DISCHARGE:	NOT AVAILABLE
MECHANICAL IMPACT:	NOT AVAILABLE
LOWER EXPLOSIVE LIMIT, LEL (%):	NOT AVAILABLE
UPPER EXPLOSIVE LIMIT, UEL (%):	NOT AVAILABLE

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## SECTION 11 - TOXICOLOGY INFORMATION

**EFFECTS FROM EYE CONTACT:**  
MAY CAUSE IRRITATION

**EFFECTS FROM SKIN CONTACT:**  
MAY CAUSE IRRITATION; CONTACT WITH HOT MATERIAL MAY CAUSE BURNS

**EFFECTS FROM INHALATION:**  
MAY CAUSE NOSE AND THROAT IRRITATION

**EFFECTS FROM INGESTION:**  
HARMFUL IF SWALLOWED

**TOXICOLOGICAL DATA:**

EFFECTS OF ACUTE EXPOSURE:	SEE ABOVE
EFFECTS OF CHRONIC EXPOSURE:	MAY CAUSE LUNG DAMAGE, SKIN AND RESPIRATORY SENSITIZATION AND DERMATITIS. REPEATED INHALATION OF CONCENTRATED FREE SILICA DUST MAY CAUSE DELAYED LUNG INJURY (SILICOSIS)
IRRITANCY OF MATERIAL:	MILD
SENSITIZING CAPABILITY:	YES
CARCINOGENICITY OF MATERIAL:	FREE SILICA OR RESPIRABLE SILICA DUST IS LISTED AS A PROBABLE HUMAN CARCINOGEN BY IARC
REPRODUCTIVE TOXICITY:	NONE KNOWN
TERATOGENICITY:	NONE KNOWN
MUTAGENICITY:	NONE KNOWN
SYNERGISTIC MATERIALS:	NONE KNOWN

## SECTION 12 - ECOLOGICAL INFORMATION

**ECOTOXICITY DATA:**  
NOT AVAILABLE

**OTHER EFFECTS AND INFORMATION:**  
NOT AVAILABLE

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## SECTION 13 - DISPOSAL CONSIDERATIONS

### PRODUCT AS SOLD:

DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND MUNICIPAL LEGISLATION

### PRODUCT PACKAGING:

DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND MUNICIPAL LEGISLATION

### SPECIAL INSTRUCTIONS:

NOT AVAILABLE

## SECTION 14 - TRANSPORT INFORMATION

### SHIPPING INFORMATION:

SHIPPING NAME:	HBE-95-
PIN/UN NUMBER:	NOT REGULATED
PACKING GROUP:	NOT REGULATED
TDG REGULATED:	NOT REGULATED
DOT REGULATED:	NOT REGULATED
IATA REGULATED:	NOT REGULATED
IMDG REGULATED:	NOT REGULATED

### SPECIAL SHIPPING INSTRUCTIONS:

NOT AVAILABLE

## SECTION 15 - REGULATORY INFORMATION

### NOTE:

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. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.



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## GENERAL MATERIAL INFORMATION:

WHMIS CLASSIFICATION:

D2A, D2B



EUROPEAN CLASSIFICATION:

Xi, Xn



RISK PHRASES:

R20, R36, R37, R38, R40, R43, R48

SAFETY PHRASES:

S22, S24, S25, S36, S37

## COMPONENT ANALYSIS – LIST STATUS:

<u>INGREDIENT</u>	<u>CAS #</u>	<u>CANADA WHMIS IDL</u>	<u>US CERCLA PRIORITY LIST</u>
EPOXY PHENOL NOVOLAC	28064-14-4	NO	NO
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	D2A	NO
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	D2B	NO
FORMALDEHYDE POLYMER WITH TOLUENE	25155-81-1	NO	NO
MICA	12001-26-2	D2A	NO
HYDROPHOBIC SILICA	67762-90-7	NO	NO
TITANIUM DIOXIDE	13463-67-7	NO	NO
CARBON BLACK	1333-86-4	D2A, D2B	NO

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## COMPONENT ANALYSIS – INVENTORY STATUS:

<u>INGREDIENT</u>	<u>CAS #</u>	<u>CANADA- DSL</u>	<u>US- TSCA</u>	<u>EU- EINECS</u>	<u>AUSTRALIA -AICS</u>
EPOXY PHENOL NOVOLAC	28064-14-4	YES	YES	NO	YES
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	YES	YES	238-878-4	YES
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	YES	YES	241-536-7	YES
FORMALDEHYDE POLYMER WITH TOLUENE	25155-81-1	YES	YES	NO	YES
MICA	12001-26-2	YES	NO	NO	YES
HYDROPHOBIC SILICA	67762-90-7	YES	YES	NO	YES
TITANIUM DIOXIDE	13463-67-7	YES	YES	236-675-5	YES
CARBON BLACK	1333-86-4	YES	YES	215-609-9	YES

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## SECTION 16 - OTHER INFORMATION

PREPARED BY: SHAWCOR LTD.  
TELEPHONE NUMBER: (416) 743-7111  
DATE PREPARED: SEPTEMBER 21, 2006

### ADDITIONAL INFORMATION:

#### WHMIS CLASSIFICATION:

- D2A POISONOUS AND INFECTIOUS MATERIAL – MATERIALS CAUSING OTHER TOXIC EFFECTS  
(VERY TOXIC MATERIAL)  
D2B POISONOUS AND INFECTIOUS MATERIAL – MATERIALS CAUSING OTHER TOXIC EFFECTS  
(TOXIC MATERIAL)

#### HAZARD SYMBOLS:

- Xi IRRITANT  
Xn HARMFUL

#### RISK PHRASES:

- R20 HARMFUL BY INHALATION  
R36 IRRITATING TO EYES  
R37 IRRITATING TO RESPIRATORY SYSTEM  
R38 IRRITATING TO SKIN  
R40 LIMITED EVIDENCE OF A CARCINOGENIC EFFECT  
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT  
R48 DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE

#### SAFETY PHRASES:

- S22 DO NOT BREATHE DUST  
S24 AVOID CONTACT WITH SKIN  
S25 AVOID CONTACT WITH EYES  
S36 WEAR SUITABLE PROTECTIVE CLOTHING  
S37 WEAR SUITABLE GLOVES

**IARC** INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

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