

## MATERIAL SAFETY DATA SHEET

PRODUCT: HBE-HT BRUSH BASE  
REVISION DATE: JULY 22, 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-HT BRUSH BASE**  
(AS USED ON LABEL AND LIST):  
**PRODUCT USE:** COATING FOR PIPELINES  
**PRODUCT I.D. NUMBER (PIN):**

### SECTION 2 - HAZARDS IDENTIFICATION

**ADVERSE HEALTH EFFECTS:**

ADVERSE EYE, SKIN AND RESPIRATORY EFFECTS. SENSITIZATION MAY OCCUR WITH PROLONGED SKIN CONTACT.

**ENVIRONMENTAL EFFECTS:**

NOT AVAILABLE

**PHYSICAL AND CHEMICAL HAZARDS:**

THERMAL DECOMPOSITION MAY CAUSE THE RELEASE OF IRRITATING PRODUCTS, OXIDES OF NITROGEN, OXIDES OF CARBON, CARBOXYLIC ACIDS, ALDEHYDES.

**SPECIFIC HAZARDS:**

ELEVATED TEMPERATURES

**CARCINOGENICITY INFORMATION:**

NOT AVAILABLE

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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>EU- EINECS</u>	<u>%</u>	<u>HAZARD SYMBOLS</u>	<u>RISK PHRASES</u>
CRYSTALLINE SILICA(QUARTZ)	14808-60-7	238-878-4	30-60	-	-
LIQUID EPOXY RESIN	28064-14-4	608-164-0	14-40	-	-
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	241-536-7	5-10	Xi	R38, R43
LIQUID EPOXY RESIN	25155-81-1	500-034-0	5-10	-	-
TITANIUM DIOXIDE	13463-67-7	236-675-5	1-5	-	-

## SECTION 4 - FIRST-AID MEASURES

### EYE CONTACT:

FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

### SKIN CONTACT:

WASH WITH SOAP AND WATER FOR 15 MINUTES; REMOVE CONTAMINATED CLOTHING. SEEK MEDICAL ATTENTION.

### INHALATION:

REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, A TRAINED PERSON SHOULD PERFORM ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

### INGESTION:

SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

## SECTION 5 - FIRE-FIGHTING MEASURES

### SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE

### FIRE-FIGHTING HAZARDS:

NOT AVAILABLE

### FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

USE SELF CONTAINED BREATHING APPARATUS DURING FIREFIGHTING

### FIRE-FIGHTING PROCEDURES:

DO NOT USE DIRECT STREAM OF WATER

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## THERMAL DECOMPOSITION BY-PRODUCTS:

THERMAL DECOMPOSITION MAY RELEASE IRRITATING PRODUCTS, NITROGEN OXIDES, CARBON OXIDES, CARBOXYLIC ACIDS, ALDEHYDES.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE SAFETY 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 CLOSED CONTAINERS. DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, PROVINCIAL AND MUNICIPAL LEGISLATION.

## SECTION 7 - HANDLING AND STORAGE

### HANDLING REQUIREMENTS:

MAINTAIN GOOD PERSONAL HYGIENE. ALL EQUIPMENT MUST BE GROUNDED.

### STORAGE REQUIREMENTS:

COOL DRY ENVIRONMENT AWAY FROM SOURCES OF IGNITION.

### INCOMPATIBLE MATERIALS:

STRONG ACIDS, OXIDIZERS (PERCHLORATES, NITRATES)

### VENTILATION:

ADEQUATE GENERAL VENTILATION IS RECOMMENDED

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

ADEQUATE GENERAL VENTILATION IS RECOMMENDED

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

GLOVES/TYPE:	CHEMICAL RESISTANT GLOVES WHEN HANDLING MATERIAL.
RESPIRATORY/TYPE:	WEAR A NIOSH APPROVED RESPIRATOR DURING APPLICATION/HANDLING. AFTER APPLICATION AND DRYING, WEAR A DUST RESPIRATOR FOR ANY SANDING, GRINDING TYPE ACTIVITIES.
EYE/TYPE:	SPLASH PROOF CHEMICAL SAFETY GOGGLES
FOOTWEAR:	IMPERVIOUS BOOTS
CLOTHING:	CHEMICAL RESISTANT APRON, COVER EXPOSED SKIN.

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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>
CRYSTALLINE SILICA(QUARTZ)	14808-60-7	NA	NA	NA	0.1mg/m <sup>3</sup> (RESP. DUST)
LIQUID EPOXY RESIN	28064-14-4	4000mg/kg (RABBIT)	6000mg/kg (RAT)	NA	NA
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	2150mg/kg (RABBIT, SKIN)	NA	NA	NA
LIQUID EPOXY RESIN	25155-81-1	NA	NA	NA	NA
TITANIUM DIOXIDE	13463-67-7	NA	NA	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>

NA – NO DATA AVAILABLE

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL DATA:

PHYSICAL STATE	VISCOUS LIQUID
FORM	LIQUID
COLOUR	BLACK
ODOUR	FAINT OILY ODOUR
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
BOILING POINT:	NOT AVAILABLE
FREEZING POINT:	LESS THAN -5°C (68F)
MELTING POINT:	NOT AVAILABLE
EVAPORATION RATE:	NOT AVAILABLE
VAPOUR PRESSURE (mmHg):	NOT AVAILABLE
VAPOUR DENSITY (AIR = 1):	NOT AVAILABLE
pH:	ALKALINE (> 7.0)
SPECIFIC GRAVITY (WATER = 1):	1.5 @ 25°C (77F)
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NOT AVAILABLE
SOLUBILITY IN WATER:	SLIGHT

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## SECTION 10 - STABILITY AND REACTIVITY

### CONDITIONS TO AVOID:

ELEVATED TEMPERATURES

### MATERIALS TO AVOID:

STRONG ACIDS, OXIDIZERS (PERCHLORATES, NITRATES)

### 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°C (200 F) CLOSED CUP
AUTOIGNITION TEMPERATURE:	NOT AVAILABLE

### HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY CAUSE THE RELEASE OF IRRITATING PRODUCTS, OXIDES OF NITROGEN, OXIDES OF CARBON, CARBOXYLIC ACIDS, ALDEHYDES.

### EXPLOSION DATA:

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

## SECTION 11 - TOXICOLOGY INFORMATION

### EFFECTS FROM EYE CONTACT:

SEVERE IRRITANT. MAY SEVERELY DAMAGE TISSUE AND PRODUCE SCARRING.

### EFFECTS FROM SKIN CONTACT:

SEVERE IRRITANT. MAY SEVERELY DAMAGE TISSUE AND PRODUCE SCARRING.

### EFFECTS FROM INHALATION:

SEVERE IRRITANT. MAY SEVERELY DAMAGE TISSUE AND PRODUCE SCARRING.

### EFFECTS FROM INGESTION:

HARMFUL IF SWALLOWED. MAY CAUSE DEATH UNLESS TREATED PROMPTLY.

### TOXICOLOGICAL DATA:

EFFECTS OF ACUTE EXPOSURE:	SEE ABOVE
EFFECTS OF CHRONIC EXPOSURE:	EYE, SKIN AND RESPIRATORY SENSITIZATION MAY OCCUR WITH PROLONGED CONTACT
IRRITANCY OF MATERIAL:	SKIN SENSITIZER
SENSITIZING CAPABILITY:	YES

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CARCINOGENICITY OF MATERIAL:	FREE SILICA OR RESPIRABLE SILICA DUST IS LISTED AS A PROBABLE HUMAN CARCINOGEN BY IARC
REPRODUCTIVE TOXICITY:	NOT AVAILABLE
TERATOGENICITY:	NOT AVAILABLE
MUTAGENICITY:	NOT AVAILABLE
SYNERGISTIC MATERIALS:	NOT AVAILABLE

## SECTION 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY DATA:

NOT AVAILABLE

### OTHER EFFECTS AND INFORMATION:

NOT AVAILABLE

## SECTION 13 - DISPOSAL CONSIDERATIONS

### PRODUCT AS SOLD:

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

### PRODUCT PACKAGING:

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

### SPECIAL INSTRUCTIONS:

NONE

## SECTION 14 - TRANSPORT INFORMATION

### SHIPPING INFORMATION:

SHIPPING NAME:	<b>HBE-HT BRUSH BASE</b>
PIN/UN NUMBER:	NOT APPLICABLE
PACKING GROUP:	NOT APPLICABLE
TDG REGULATED:	NOT APPLICABLE.
DOT REGULATED:	NOT APPLICABLE.
IATA REGULATED:	NOT APPLICABLE

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**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.

**GENERAL MATERIAL INFORMATION:**

WHMIS CLASSIFICATION:



D2A, D2B -

EUROPEAN CLASSIFICATION



Xi -

**COMPONENT ANALYSIS – LIST STATUS:**

<u>INGREDIENT</u>	<u>CAS #</u>	<u>CANADA WHMIS IDL</u>	<u>US CERCLA PRIORITY LIST</u>
CRYSTALLINE SILICA(QUARTZ)	14808-60-7	NO	NO
LIQUID EPOXY RESIN	28064-14-4	NO	NO
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	NO	NO
LIQUID EPOXY RESIN	25155-81-1	NO	NO
TITANIUM DIOXIDE	13463-67-7	NO	NO

**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>
CRYSTALLINE SILICA(QUARTZ)	14808-60-7	YES	YES	YES	YES
LIQUID EPOXY RESIN	28064-14-4	YES	YES	YES	YES
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	YES	YES	YES	YES
LIQUID EPOXY RESIN	25155-81-1	YES	YES	YES	YES
TITANIUM DIOXIDE	13463-67-7	YES	YES	YES	YES

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## SECTION 16 - OTHER INFORMATION

PREPARED BY: SHAWCOR LTD.  
TELEPHONE NUMBER: (416) 743-7111  
DATE PREPARED: DECEMBER 14<sup>th</sup> 2011

### ADDITIONAL INFORMATION:

#### RISK PHRASES:

R38 IRRITATING TO SKIN  
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT

#### SAFETY PHRASES:

S1/2 KEEP LOCKED UP AND OUT OF REACH OF CHILDREN  
S26 IN CASE OF CONTACT WITH EYES, RINSE WITH PLENTY OF WATER AND SEEK MEDICAL ATTENTION  
S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION  
S38 IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT  
S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY  
S46 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR MSDS SHEET

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