

MATERIAL SAFETY DATA SHEET

PRODUCT: HBE-HT BRUSH BASE
 REVISION DATE: October 28th, 2009

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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: +1-613-996-6666 (CANUTEC)
INFORMATION NUMBER: +1-416-743-7111

PRODUCT IDENTITY **HBE-HT BRUSH BASE**
 (AS USED ON LABEL AND LIST):
PRODUCT USE: Coating for Pipelines
PRODUCT I.D. NUMBER (PIN): N/A

SECTION 2 - HAZARDS IDENTIFICATION

ADVERSE HEALTH EFFECTS:
 NOT AVAILABLE

ENVIRONMENTAL EFFECTS:
 NOT AVAILABLE

PHYSICAL AND CHEMICAL HAZARDS:
 NOT AVAILABLE

SPECIFIC HAZARDS:
 NOT AVAILABLE

CARCINOGENICITY INFORMATION:
 NOT AVAILABLE

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	NONE KNOWN	NONE KNOWN

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LIQUID EPOXY RESIN	28064-14-4	608-164-0	15-40	NONE KNOWN	NONE KNOWN
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	241-536-7	5-10	Xi	R: 38-43
LIQUID EPOXY RESIN	25155-81-1	500-034-0	5-10	NONE KNOWN	NONE KNOWN
TITANIUM DIOXIDE	13463-67-7	236-675-5	1-5	NONE KNOWN	NONE KNOWN

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 EATTENTION

INHALATION:

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

INGESTION:

SEEK IMMEADIATE MEDICAL ATTENTON

NOTE TO PHYSICIAN:

NOT AVAILABLE

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY, DRY CHEMICAL, FOAM, CARBON DIOXIDE. USE SELF CONTAINED BREATHING APPARATUS (SCBA) DURING FIREFIGHTING.

FIRE-FIGHTING HAZARDS:

NOT AVAILABLE

FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

FIRE RETARDANT CLOTHING AND A SCBA.

FIRE-FIGHTING PROCEDURES:

NOT APPLICABLE

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THERMAL DECOMPOSITION BY-PRODUCTS:

OXIDES OF NITROGEN AND CARBON (CO, CO₂), ALDEHYDES AND ACIDS

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

NOT AVAILABLE

ENVIRONMENTAL PRECAUTIONS:

NOT AVAILABLE

METHODS FOR CLEANING UP:

REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE SAFETY EQUIPMENT AS LISTED ABOVE. SOAK UP SPILLS WITH INERT ABSORBENT MATERIALS AND PLACE IN CLOSED CONTAINERS. PREVENT RUN-OFF FROM REACHING STORM OR SEWER DRAINS.

SECTION 7 - HANDLING AND STORAGE

HANDLING REQUIREMENTS:

ALL EQUIPMENT MUST BE GROUNDED

STORAGE REQUIREMENTS:

COOL DRY ENVIRONMENT

INCOMPATIBLE MATERIALS:

STRONG ACIDS, BASES, OXIDIZERS AND AMINES.

VENTILATION:

GENERAL VENTILATION

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 AN APPROVED RESPIRATOR DURING APPLICATION AND HANDLING WHERE VAPOUR/MIST IS ENCOUNTERED IN THE BREATHING ZONE. AFTER APPLICATION AND DRYING, WEAR A DUST RESPIRATOR FOR ANY SANDING, GRINDING TYPE ACTIVITIES
EYE/TYPE:	SPLASH PROOF CHEMICAL SAFETY GOGGLES

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FOOTWEAR: IMPERVIOUS BOOTS
CLOTHING: CHEMICAL RESISTANT APRON, COVER EXPOSED SKIN.

INGREDIENT EXPOSURE DATA:

<u>INGREDIENT</u>	<u>CAS #</u>	<u>LD₅₀ (species and route)</u>	<u>LC₅₀ (species and route)</u>	<u>OSHA (PEL) TWA</u>	<u>ACGIH (TLV) TWA</u>
CRYSTALLINE SILICA(QUARTZ)	14808-60-7	N/A	N/A	N/A	0.1mg/m ³ (respirable dust)
LIQUID EPOXY RESIN	28064-14-4	4000mg/Kg (rabbit)	6000mg/Kg (rat)	N/A	N/A
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	2150mg/Kg (rabbit, skin)	N/A	N/A	N/A
LIQUID EPOXY RESIN	25155-81-1	N/A	N/A	N/A	N/A
TITANIUM DIOXIDE	13463-67-7	N/A	N/A	N/A	10mg/m ³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

PHYSICAL STATE:	VISCOUS LIQUID
FORM:	NOT AVAILABLE
COLOUR:	GREY COLOUR
ODOUR:	FAINT OILY ODOUR
ODOUR THRESHOLD (PPM):	NOT AVAILABLE
BOILING POINT:	NOT AVAILABLE
FREEZING POINT:	<-5C
MELTING POINT:	NOT AVAILABLE
EVAPORATION RATE:	>300C (572F)
VAPOUR PRESSURE (mmHg):	NOT AVAILABLE
VAPOUR DENSITY (AIR = 1):	NOT AVAILABLE
pH:	NOT AVAILABLE
SPECIFIC GRAVITY (WATER = 1):	1.49
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NOT AVAILABLE
SOLUBILITY IN WATER:	SLIGHTLY

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

STABLE IN NON-EMERGENCY CONDITIONS

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MATERIALS TO AVOID:

STRONG ACIDS, BASES, OXIDIZERS AND AMINES

STABILITY AND REACTIVITY DATA:

STABILITY: UNSTABLE: _____ STABLE: X
HAZARDOUS POLYMERIZATION: WILL OCCUR: _____ WILL NOT OCCUR: X

FLAMMABILITY DATA:

DECOMPOSITION TEMPERATURE: NOT AVAILABLE
FLASHPOINT[METHOD USED]: >93.3C(212F) [SETA]
AUTOIGNITION TEMPERATURE: NOT AVAILABLE

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

OXIDES OF NITROGEN AND CARBON (CO, CO₂), ALDEHYDES AND ACIDS.

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:

CAUSES EYE IRRITATION

EFFECTS FROM SKIN CONTACT:

MAY CAUSE SKIN BURNS OR ALLERGIC SKIN REACTIONS

EFFECTS FROM INHALATION:

MAY CAUSE NOSE AND THROAT IRRITATION. MAY CAUSE LUNG INJURY AND/OR BURNS.

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: SEE ACUTE EFFECTS
SENSITIZING CAPABILITY: YES
CARCINOGENICITY OF MATERIAL: FREE SILICA OR RESPIRABLE SILICA DUST IS LISTED AS A PROBABLE HUMAN CARCINOGEN BY IARC.

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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:

NOT APPLICABLE

SECTION 14 - TRANSPORT INFORMATION

SHIPPING INFORMATION:

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

SPECIAL SHIPPING INSTRUCTIONS:

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



RISK PHRASES

R38, R43

SAFETY PHRASES

S2, S24, S37

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

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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>
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

SECTION 16 - OTHER INFORMATION

PREPARED BY: SHAWCOR LTD.
TELEPHONE NUMBER: (416) 743-7111
DATE PREPARED: July 7th 2006

ADDITIONAL INFORMATION:

EUROPEAN/INTERNATIONAL HAZARD SYMBOLS AND RISK AND SAFETY PHRASES

HAZARD SYMBOLS:

D2A/D2B OTHER TOXIC
Xi IRRITANT

RISK PHRASES:

R38 IRRITATING TO SKIN
R43 MAY CAUSE SENSITISATION BY SKIN CONTACT

SAFETY PHRASES:

S2 KEEP OUT OF REACH OF CHILDREN
S24 AVOID CONTACT WITH SKIN
S37 WEAR SUITABLE GLOVES

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COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS. THIS MSDS WAS CREATED IN COMPLIANCE WITH APPLICABLE HAZARDOUS MATERIAL REGULATIONS, AND IS NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE.