

MATERIAL SAFETY DATA SHEET

PRODUCT: HBE - HT Brush Base

September 21st 2006

MANUFACTURER/SUPPLIER: CANUSA-CPS, A DIVISION OF SHAWCOR LTD.
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SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTITY (AS USED ON LABEL AND LIST):

HBE – HT Brush Base

PRODUCT USE: Coating for Pipelines
WHMIS STATUS: D2B, D2A
PRODUCT I.D. NUMBER (PIN): N/A

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>HAZARDOUS INGREDIENTS</u>	<u>CAS #</u>	<u>%</u>	<u>EXPOSURE LIMITS</u>
Liquid Epoxy Resin	28064-14-4	15-40	LD ₅₀ (Rabbit):4000mg/Kg LC ₅₀ (rat) :6000mg/Kg
Titanium Dioxide	13463-67-7	1-5	TLV :10 mg/m ³
Neopentyl Glycol Diglycidyl Ether	17557-23-2	5-10	LD ₅₀ (Rabbit): 2150 mg/kg/skin
Crystalline Silica (Quartz)	14808-60-7	30-60	TLV : 0.1 mg/m ³ (Respirable Dust)
Liquid Epoxy Resin	25155-81-1	5-10	N/A

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: VISCOUS LIQUID
ODOUR AND APPEARANCE: FAINT OILY ODOUR WITH GREY COLOUR
ODOUR THRESHOLD (PPM): N/A
VAPOUR PRESSURE (mmHg): NEGLIGIBLE
VAPOUR DENSITY (AIR = 1): N/A
EVAPORATION RATE: N/A
BOILING POINT: >300°C (572°F)
FREEZING POINT: LESS THAN -5°C

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MELTING POINT: N/A
pH: N/A
SPECIFIC GRAVITY (WATER = 1): 1.49
COEFFICIENT OF WATER/
OIL DISTRIBUTION: N/A
SOLUBILITY IN WATER: SLIGHTLY

SECTION 4 - FIRE OR EXPLOSION HAZARD

FLASHPOINT (METHOD USED): > 93.3°C (212°F) SETA
AUTOIGNITION TEMPERATURE: N/A
FLAMMABLE LIMITS: N/A LEL ___ UEL
EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICAL, FOAM, CARBON DIOXIDE. USE SELF CONTAINED BREATHING APPARATUS DURING FIREFIGHTING

EXPLOSION DATA

SENSITIVITY TO STATIC DISCHARGE: N/A
SENSITIVITY TO MECHANICAL IMPACT: N/A

SECTION 5 - REACTIVITY DATA

STABILITY: UNSTABLE ___ STABLE X
CONDITIONS TO AVOID: IN NON-EMERGENCY CONDITIONS.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, BASES, OXIDIZERS AND AMINES

HAZARDOUS DECOMPOSITION OR COMBUSTION BYPRODUCTS: AND ACIDS OXIDES OF NITROGEN & CARBON (CO, CO₂), ALDEHYDES

REACTIVITY AND UNDER WHAT CONDITIONS: ELEVATED TEMPERATURES.

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY: SKIN & EYE CONTACT, INHALATION
SKIN CONTACT: MAY CAUSE SKIN BURNS OR ALLERGIC SKIN REACTIONS.
SKIN ABSORPTION: PRODUCT CAN BE ABSORBED THROUGH THE SKIN.
EYE CONTACT: CAUSES EYE IRRITATION.
INHALATION: MAY CAUSE NOSE AND THROAT IRRITATION. MAY CAUSE LUNG INJURY &/OR BURNS.
INGESTION: HARMFUL IF SWALLOWED.
EFFECTS OF ACUTE EXPOSURE: SEE ABOVE

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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.
REPRODUCTIVE EFFECTS:	N/A
TERATOGENICITY:	N/A
MUTAGENICITY:	N/A
SYNERGISTIC MATERIALS:	N/A

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

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
FOOTWEAR:	IMPERVIOUS BOOTS
CLOTHING:	CHEMICAL RESISTANT APRON, COVER EXPOSED SKIN.
ENGINEERING CONTROLS:	ADEQUATE GENERAL VENTILATION IS RECOMMENDED
LEAKS/SPILLS:	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.
WASTE DISPOSAL:	DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, PROVINCIAL AND MUNICIPAL LEGISLATION.
HANDLING PROCEDURES AND EQUIPMENT:	ALL EQUIPMENT MUST BE GROUNDED.
STORAGE NEEDS:	COOL DRY ENVIRONMENT

SECTION 8 – 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.

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

INGESTION: SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION 9 – PREPARATION INFORMATION

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

ADDITIONAL INFORMATION: **CEPA:** NOT ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE DOMESTIC SUBSTANCES LIST.
TSCA: ALL THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA.

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