

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
 REVISION DATE: July 7th 2006

Page 1 of 8

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 **E-PRIMER Base**
 (AS USED ON LABEL AND LIST):
PRODUCT USE: Coating for Pipelines
PRODUCT I.D. NUMBER (PIN): N/A

SECTION 2 - 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	NONE KNOWN	NONE KNOWN
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	30-60	NONE KNOWN	NONE KNOWN
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	5-10	Xi	R: 38-43
MICA	12001-26-2	1-5	NONE KNOWN	NONE KNOWN
HYDROPHOBIC SILICA	67762-90-7	0.1-1	NONE KNOWN	NONE KNOWN
CARBON BLACK	1333-86-4	0.1-1	NONE KNOWN	NONE KNOWN

SECTION 3 - HAZARDS IDENTIFICATION

ADVERSE HEALTH EFFECTS:
 MAY CAUSE LUNG DAMAGE, SKIN AND RESPIRATORY SENSITIZATION AND DERMATITIS.

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 2 of 8

ENVIRONMENTAL EFFECTS:

NOT AVAILABLE

PHYSICAL AND CHEMICAL HAZARDS:

INCOMPATIBLE WITH STRONG ACIDS, BASES, OXIDIZERS AND AMINES.

SPECIFIC HAZARDS:

ELEVATED TEMPERATURES

CARCINOGENICITY INFORMATION:

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

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 CLOTHING. SEEK MEDICAL ATTENTION.

INHALATION:

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

INGESTION:

SEEK IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NOT AVAILABLE

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY, DRY CHEMICAL, FOAM, CARBON DIOXIDE.

FIRE-FIGHTING HAZARDS:

NOT AVAILABLE

FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

USE SELF CONTAINED BREATHING APPARATUS DURING FIREFIGHTING

FIRE-FIGHTING PROCEDURES:

NOT AVAILABLE

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 3 of 8

THERMAL DECOMPOSITION BY-PRODUCTS:

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

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. WASH AFTER USE.

STORAGE REQUIREMENTS:

COOL DRY ENVIRONMENT

INCOMPATIBLE MATERIALS:

STRONG ACIDS, BASES, OXIDIZERS AND AMINES

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.

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 4 of 8

RESPIRATORY/TYPE: WEAR A NIOSH APPROVED ORGANIC 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.

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>
EPOXY PHENOL NOVOLAC	28064-14-4	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	NOT AVAILABLE	NOT AVAILABLE	250 mppcf 10 mg/m ³	0.1 mg/m ³
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	Rabbit, Skin: 2150 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
MICA	12001-26-2	NOT AVAILABLE	NOT AVAILABLE	20 mppcf	INHALABLE: 3 mg/m ³
HYDROPHOBIC SILICA	67762-90-7	Rat, Oral: 1000 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
CARBON BLACK	1333-86-4	Rat, Oral: 8 g/kg	NOT AVAILABLE	3.5 mg/m ³	3.5 mg/m ³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

PHYSICAL STATE: LIQUID

FORM: VISCOUS LIQUID

COLOUR: GREY

ODOUR: FAINT OILY ODOUR

ODOUR THRESHOLD (PPM): NOT AVAILABLE

BOILING POINT: >300°C (572°F)

FREEZING POINT: LESS THAN -5°C

MELTING POINT: NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

VAPOUR PRESSURE (mmHg): NEGLIGIBLE

VAPOUR DENSITY (AIR = 1): NOT AVAILABLE

pH: NOT AVAILABLE

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 5 of 8

SPECIFIC GRAVITY (WATER = 1): 1.573
COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE
SOLUBILITY IN WATER: SLIGHTLY

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

ELEVATED TEMPERATURES

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

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

OXIDES OF NITROGEN & 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 &/OR BURNS

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 6 of 8

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.
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 AVAILABLE

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 7 of 8

SECTION 14 - TRANSPORT INFORMATION

SHIPPING INFORMATION:

SHIPPING NAME:	E-PRIMER Base
PIN/UN NUMBER:	NOT AVAILABLE
PACKING GROUP:	NOT AVAILABLE
TDG REGULATED:	NOT REGULATED AS A HAZARDOUS MATERIAL
DOT REGULATED:	NOT REGULATED AS A HAZARDOUS MATERIAL
IATA REGULATED:	NOT REGULATED AS A HAZARDOUS MATERIAL
IMDG REGULATED:	NOT REGULATED AS A HAZARDOUS MATERIAL

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.

GENERAL MATERIAL INFORMATION:

WHMIS CLASSIFICATION: D2A

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	YES	NO
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	NO	NO
MICA	12001-26-2	YES	NO

MATERIAL SAFETY DATA SHEET

PRODUCT: E-Primer Base
REVISION DATE: July 7th 2006

Page 8 of 8

HYDROPHOBIC SILICA	67762-90-7	NO	NO
CARBON BLACK	1333-86-4	YES	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>
EPOXY PHENOL NOVOLAC	28064-14-4	YES	YES	NO	YES
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	YES	YES	YES 238-878-4	YES
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	17557-23-2	YES	YES	YES 241-536-7	YES
MICA	12001-26-2	YES	NO	NO	YES
HYDROPHOBIC SILICA	67762-90-7	YES	YES	NO	YES
CARBON BLACK	1333-86-4	YES	YES	YES 215-609-9	YES

SECTION 16 - OTHER INFORMATION

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

ADDITIONAL INFORMATION: NONE

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