

MATERIAL SAFETY DATA SHEET

PRODUCT: P EPOXY/PRIMER BASE & P EPOXY/PRIMER HB BASE
 REVISION DATE: July 7th 2006

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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 **P EPOXY/PRIMER BASE & P EPOXY/PRIMER HB BASE**
 (AS USED ON LABEL AND LIST):
PRODUCT USE: PIPELINE CORROSION PROTECTION
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	30-60	NONE KNOWN	NONE KNOWN
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	15-40	NONE KNOWN	NONE KNOWN
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	5-10	T	R: 45
MICA	12001-26-2	1-5	NONE KNOWN	NONE KNOWN
HYDROPHOBIC SILICA	67762-90-7	1-5	NONE KNOWN	NONE KNOWN
CARBON BLACK	1333-86-4	0.1-1	NONE KNOWN	NONE KNOWN

SECTION 3 - HAZARDS IDENTIFICATION

ADVERSE HEALTH EFFECTS:

HAZARDOUS IN CASE OF INHALATION (LUNG IRRITANT). SLIGHTLY HAZARDOUS IN CASE OF EYE AND SKIN CONTACT (IRRITANT).

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ENVIRONMENTAL EFFECTS:

NOT AVAILABLE

PHYSICAL AND CHEMICAL HAZARDS:

HIGHLY REACTIVE WITH OXIDIZING AGENTS. INCREASED REACTIVITY UNDER ELEVATED TEMPERATURES.

SPECIFIC HAZARDS:

NOT AVAILABLE

CARCINOGENICITY INFORMATION:

THIS PRODUCT CONTAINS QUARTZ (CRYSTALLINE SILICA). CLASSIFIED 1 (PROVEN FOR HUMAN) BY IARC. CLASSIFIED A2 (SUSPECTED FOR HUMANS) BY ACGIH. HOWEVER, UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO RESPIRABLE SILICA VIA INHALATION WILL NOT BE EXPECTED TO OCCUR.

THIS PRODUCT CONTAINS CARBON BLACK. CLASSIFIED 2B (POSSIBLY CARCINOGENIC TO HUMANS) BY IARC.

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.

SKIN CONTACT:

WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION.

NOTE TO PHYSICIAN:

NOT AVAILABLE

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER SPRAY

FIRE-FIGHTING HAZARDS:

NOT AVAILABLE

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FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

FIRE-FIGHTERS SHOULD WEAR THE USUAL PROTECTIVE GEAR. USE A SELF CONTAINED BREATHING APPARATUS.

FIRE-FIGHTING PROCEDURES:

DO NOT USE FORCED STREAM AS THIS COULD CAUSE FIRE TO SPREAD.

THERMAL DECOMPOSITION BY-PRODUCTS:

OXIDES OF CARBON, ALDEHYDES, AROMATIC HYDROCARBONS

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

WEAR PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS:

CONTAIN LIQUID TO PREVENT CONTAMINATION OF SOIL, SURFACE WATER, OR GROUND WATER.

METHODS FOR CLEANING UP:

ABSORB WITH INERT MATERIAL. SHOVEL INTO A SUITABLE CONTAINER FOR DISPOSAL. FLUSH CONTAMINATED AREA WITH WATER.

SECTION 7 - HANDLING AND STORAGE

HANDLING REQUIREMENTS:

AVOID BREATHING VAPOURS OF HEATED MATERIAL.

STORAGE REQUIREMENTS:

KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, AND WELL VENTILATED AREA.

INCOMPATIBLE MATERIALS:

HIGHLY REACTIVE WITH OXIDIZING AGENTS

VENTILATION:

STORE IN A WELL VENTILATED AREA.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

GLOVES/TYPE: USE IMPERVIOUS GLOVES
RESPIRATORY/TYPE: USE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPOURS WHEN EXPOSURE IS LIKELY.
EYE/TYPE: WEAR SPLASH-PROOF CHEMICAL GOGGLES.
FOOTWEAR: SAFETY SHOES
CLOTHING: WEAR GAUNTLETS AND APRON

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	0.1 mg/m ³	0.1 mg/m ³
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	>5000 mg/kg (rat, oral) >5000 mg/kg (rabbit, dermal)	NOT AVAILABLE	5 mg/m ³	5 mg/m ³
MICA (MUSCOVITE)	12001-26-2	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	3 mg/m ³
HYDROPHOBIC SILICA	67762-90-7	>1000 mg/kg (rat, oral)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
CARBON BLACK	1333-86-4	>8 g/kg (rat, oral)	NOT AVAILABLE	3.5 mg/m ³	3.5 mg/m ³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

PHYSICAL STATE:

LIQUID

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FORM:	VISCOUS
COLOUR:	BLACK
ODOUR:	SLIGHT HYDROCARBON ODOUR
ODOUR THRESHOLD (PPM):	NOT AVAILABLE
BOILING POINT:	NOT AVAILABLE
FREEZING POINT:	NOT AVAILABLE
MELTING POINT:	NOT AVAILABLE
EVAPORATION RATE:	NOT AVAILABLE
VAPOUR PRESSURE (mmHg):	NOT AVAILABLE
VAPOUR DENSITY (AIR = 1):	NOT AVAILABLE
pH:	NOT AVAILABLE
SPECIFIC GRAVITY (WATER = 1):	1.483
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NOT AVAILABLE
SOLUBILITY IN WATER:	NOT AVAILABLE

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

ELEVATED TEMPERATURES

MATERIALS TO AVOID:

OXIDIZING AGENTS, STRONG ACIDS OR BASES IN BULK, AMINES

STABILITY AND REACTIVITY DATA:

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

FLAMMABILITY DATA:

DECOMPOSITION TEMPERATURE:	NOT AVAILABLE
FLASHPOINT:	NOT AVAILABLE
AUTOIGNITION TEMPERATURE:	NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON, ALDEHYDES, AROMATIC HYDROCARBONS, PHENOLICS.

EXPLOSION DATA:

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

HAZARDOUS DECOMPOSITION PRODUCTS:

NOT AVAILABLE

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SECTION 11 - TOXICOLOGY INFORMATION

EFFECTS FROM EYE CONTACT:

SLIGHT IRRITANT. MAY CAUSE REDNESS AND CONJUNCTIVITIS

EFFECTS FROM SKIN CONTACT:

SEVERE IRRITANT. MAY CAUSE ALLERGIC SKIN REACTION

EFFECTS FROM INHALATION:

SEVERE LUNG IRRITANT. HOWEVER, UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO RESPIRABLE SILICA VIA INHALATION WILL NOT BE EXPECTED TO OCCUR.

EFFECTS FROM INGESTION:

NOT AVAILABLE

TOXICOLOGICAL DATA:

EFFECTS OF ACUTE EXPOSURE:	SEE ABOVE
EFFECTS OF CHRONIC EXPOSURE:	ALLERGY, ECZEMA OR SKIN CONDITIONS. REPEATED EXPOSURE CAN PRODUCE TARGET ORGAN DAMAGE, HOWEVER, UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO RESPIRABLE SILICA VIA INHALATION WILL NOT BE EXPECTED TO OCCUR.
IRRITANCY OF MATERIAL:	LUNG, SKIN, AND EYE IRRITANT
SENSITIZING CAPABILITY:	MAY CAUSE SKIN SENSITIZATION
CARCINOGENICITY OF MATERIAL:	THIS PRODUCT CONTAINS QUARTZ (CRYSTALLINE SILICA). CLASSIFIED 1 (PROVEN FOR HUMAN) BY IARC. CLASSIFIED A2 (SUSPECTED FOR HUMANS) BY ACGIH. UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO RESPIRABLE SILICA VIA INHALATION WILL NOT BE EXPECTED TO OCCUR.
REPRODUCTIVE TOXICITY:	NOT AVAILABLE
TERATOGENICITY:	NOT AVAILABLE
MUTAGENICITY:	NOT AVAILABLE
SYNERGISTIC MATERIALS:	NOT AVAILABLE

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

NOT AVAILABLE

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OTHER EFFECTS AND INFORMATION:

NOT AVAILABLE

SECTION 13 - DISPOSAL CONSIDERATIONS

PRODUCT AS SOLD:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND MUNICIPAL REGULATIONS.

PRODUCT PACKAGING:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND MUNICIPAL REGULATIONS.

SPECIAL INSTRUCTIONS:

NOT AVAILABLE

SECTION 14 - TRANSPORT INFORMATION

SHIPPING INFORMATION:

SHIPPING NAME:	NOT REGULATED AS A HAZARDOUS MATERIAL
PIN/UN NUMBER:	NOT REGULATED AS A HAZARDOUS MATERIAL
PACKING GROUP:	NOT REGULATED AS A HAZARDOUS MATERIAL
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.

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GENERAL MATERIAL INFORMATION:

WHMIS CLASSIFICATION: D2A, D2B

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
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	NO	NO
MICA	12001-26-2	YES	NO
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
SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	YES	YES	YES, 265-155-0	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

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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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