

MATERIAL SAFETY DATA SHEET

PRODUCT: P EPOXY/PRIMER CURE & P EPOXY/PRIMER HB CURE

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 CURE & P EPOXY/PRIMER HB CURE**
 (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>
1,2 DIAMINOCYCLO HEXANE	694-83-7	10-30	NONE KNOWN	NONE KNOWN
SALICYLIC ACID	69-72-7	1-5	NONE KNOWN	NONE KNOWN
2,4,6-TRIS PHENOL (DIMETHYLAMINOMETHYL)	90-72-2	1-5	X _n	R: 22-36/38
CYCLOALIPHATIC AROMATIC POLYAMINE REGISTRY # 5336 FILING DATE – 01/28/02	TRADE SECRET	1-5	TRADE SECRET	TRADE SECRET
DIETHYLENE TRIAMINE	111-40-0	1-5	C	R: 21/22-34-43
HEXAMETHYLENEDIAMINE	124-09-4	0.1-1	C	R: 21/22-34-37
BENZYL ALCOHOL	100-51-6	10-30	X _n	R: 20/22
POLYETHYLENEPOLYAMINES	29320-38-5	10-30	NONE KNOWN	NONE KNOWN
1,2-ETHANEDIAMINE, N-(3- (TRIMETHOXYSILYL)PROPYL-	1760-24-3	1-5	NONE KNOWN	NONE KNOWN

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TETRAETHYLENE
PENTAMINE

112-57-2

1-5

C, N

R: 21/22-34-43-
51/53

SECTION 3 - HAZARDS IDENTIFICATION

ADVERSE HEALTH EFFECTS:

HARMFUL IF SWALLOWED. EXTREMELY HAZARDOUS IN CASE OF SKIN AND EYE CONTACT (IRRITANT, CORROSIVE, CAUSES BURNS).

ENVIRONMENTAL EFFECTS:

NOT AVAILABLE

PHYSICAL AND CHEMICAL HAZARDS:

HIGHLY REACTIVE WITH OXIDIZING AGENTS AND ACIDS.

SPECIFIC HAZARDS:

CORROSIVE TO SKIN AND EYES.

CARCINOGENICITY INFORMATION:

THIS PRODUCT IS NOT KNOWN TO BE CARCINOGENIC.

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

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SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER SPRAY

FIRE-FIGHTING HAZARDS:

NOT AVAILABLE

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, OXIDES OF NITROGEN, OXIDES OF SULPHUR, HALOGENATED COMPOUNDS, ALDEHYDES

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 A DETERGENT SOLUTION.

SECTION 7 - HANDLING AND STORAGE

HANDLING REQUIREMENTS:

HANDLE AND OPEN CONTAINER WITH CARE. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOURS. WASH THOROUGHLY AFTER USING.

STORAGE REQUIREMENTS:

KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, AND WELL VENTILATED AREA. KEEP AWAY FROM FOOD AND FEED PRODUCTS.

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INCOMPATIBLE MATERIALS:

HIGHLY REACTIVE WITH OXIDIZING AGENTS AND ACIDS.

VENTILATION:

STORE AND USE IN A WELL VENTILATED AREA.

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</u> <small>(species and route)</small>	<u>LC₅₀</u> <small>(species and route)</small>	<u>OSHA (PEL)</u> <u>TWA</u>	<u>ACGIH (TLV)</u> <u>TWA</u>
1,2-DIAMINOCYCLO HEXANE	694-83-7	4556 mg/kg (rat, oral)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
SALICYLIC ACID	69-72-7	891 mg/kg (rat, oral) 480 mg/kg (mouse, oral) >10000 mg/kg (rabbit, dermal) >2000 mg/kg (rat, dermal) 1300 mg/kg (rabbit, oral)	900 mg/m ³ / 1 hour (rat, inhalation)	NOT AVAILABLE	NOT AVAILABLE
PHENOL, 2,4,6-TRIS [(DIMETHYLAMINO) METHYL]	90-72-2	1200 mg/kg (rat, oral) 1280 mg/kg (rat, dermal)	NOT AVAILABLE	NOT AVAILABLE	5 PPM

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CYCLOALIPHATIC AROMATIC POLYAMINE REGISTRY # 5336 FILING DATE – 01/28/02	TRADE SECRET	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
DIETHYLENE TRIAMINE	111-40-0	1080 mg/kg (rat, oral) 1090 mg/kg (rabbit, dermal)	NOT AVAILABLE	1 PPM	1 PPM
HEXAMETHYLENE DIAMINE	124-09-4	750 mg/kg (rat, oral) 1110 mg/kg (rabbit, dermal)	NOT AVAILABLE	NOT AVAILABLE	2.3 mg/m ³
BENZYL ALCOHOL	100-51-6	1230 mg/kg (rat, oral) 1360 mg/kg (mouse, oral) 1040 mg/kg (rabbit, oral) 2000 mg/kg (rabbit, dermal)	NOT AVAILABLE	5 mg/m ³	5 mg/m ³
POLYETHYLENE- POLYAMINES	29320-38-5	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
1,2-ETHANEDIAMINE, N-(3-(TRIMETHO XYSILYL)PROPYL)-	1760-24-3	7460 mg/kg (rat, oral)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
TETRAETHYLENE- PENTAMINE	112-57-2	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

PHYSICAL STATE:	LIQUID
FORM:	VISCOUS
COLOUR:	AMBER
ODOUR:	AMINE/AMMONIA ODOUR
ODOUR THRESHOLD (PPM):	NOT AVAILABLE
BOILING POINT:	NOT AVAILABLE
FREEZING POINT:	NOT AVAILABLE
MELTING POINT:	NOT AVAILABLE
EVAPORATION RATE:	NOT AVAILABLE

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VAPOUR PRESSURE (mmHg):	NOT AVAILABLE
VAPOUR DENSITY (AIR = 1):	NOT AVAILABLE
pH:	NOT AVAILABLE
SPECIFIC GRAVITY (WATER = 1):	1.059
COEFFICIENT OF WATER/OIL DISTRIBUTION:	NOT AVAILABLE
SOLUBILITY IN WATER:	NOT AVAILABLE

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

NONE KNOWN

MATERIALS TO AVOID:

OXIDIZING AGENTS, STRONG ACIDS OR BASES IN BULK, HALOGENATED COMPOUNDS, HALOGENS, SILVER, COBALT, COPPER, COPPER ALLOYS, CHROMIUM, ACRYLATES, ALDEHYDES, AND KETONES.

STABILITY AND REACTIVITY DATA:

STABILITY:	UNSTABLE: _____	STABLE: _____
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, OXIDES OF NITROGEN, OXIDES OF SULPHUR, HALOGENATED COMPOUNDS, ALDEHYDES

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

SECTION 11 - TOXICOLOGY INFORMATION

EFFECTS FROM EYE CONTACT:

IRRITANT, CORROSIVE, CAUSES BURNS

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EFFECTS FROM SKIN CONTACT:

IRRITANT, CORROSIVE, CAUSES BURNS. MAY CAUSE ALLERGIC SKIN REACTION.

EFFECTS FROM INHALATION:

NOT AVAILABLE

EFFECTS FROM INGESTION:

HARMFUL IF SWALLOWED

TOXICOLOGICAL DATA:

EFFECTS OF ACUTE EXPOSURE:	SEE ABOVE
EFFECTS OF CHRONIC EXPOSURE:	ALLERGY, ECZEMA OR SKIN CONDITIONS
IRRITANCY OF MATERIAL:	LUNG, SKIN, AND EYE IRRITANT. REPEATED INHALATION HAS PRODUCED LUNG EFFECTS IN RATS.
SENSITIZING CAPABILITY:	EXTREME GRADE OF SKIN SENSITIZING POTENTIAL. RESPIRATORY SENSITIZER.
CARCINOGENICITY OF MATERIAL:	NONE KNOWN
REPRODUCTIVE TOXICITY:	NOT AVAILABLE
TERATOGENICITY:	NOT AVAILABLE
MUTAGENICITY:	COMPONENTS IN THIS PRODUCT HAVE PRODUCED IN VITRO MUTAGENIC EFFECTS IN MAMMALIAN CELLS AND BACTERIA.
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:

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.

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SPECIAL INSTRUCTIONS:

NOT AVAILABLE

SECTION 14 - TRANSPORT INFORMATION

SHIPPING INFORMATION:

SHIPPING NAME: P EPOXY/PRIMER CURE & P EPOXY/PRIMER HB CURE -
POLYAMINES, LIQUID, CORROSIVE, N.O.S.

PIN/UN NUMBER: UN 2735

PACKING GROUP: II

TDG REGULATED: AMINES, LIQUID, CORROSIVE, N.O.S.

DOT REGULATED: AMINES, LIQUID, CORROSIVE, N.O.S.

IATA REGULATED: AMINES, LIQUID, CORROSIVE, N.O.S.

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.

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: D1B, D2A, D2B, E

COMPONENT ANALYSIS – LIST STATUS:

<u>INGREDIENT</u>	<u>CAS #</u>	<u>CANADA WHMIS IDL</u>	<u>US CERCLA PRIORITY LIST</u>
1,2-DIAMINOCYCLO HEXANE	694-83-7	NO	NO
SALICYLIC ACID	69-72-7	YES	NO
PHENOL, 2,4,6-TRIS [(DIMETHYLAMINO) METHYL]	90-72-2	NO	NO

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CYCLOALIPHATIC AROMATIC POLYAMINE REGISTRY # 5336 FILING DATE – 01/28/02	TRADE SECRET	NOT AVAILABLE	NOT AVAILABLE
DIETHYLENE TRIAMINE	111-40-0	YES	NO
HEXAMETHYLENE DIAMINE	124-09-4	YES	NO
BENZYL ALCOHOL	100-51-6	YES	NO
POLYETHYLENE POLYAMINES	29320-38-5	NO	NO
1,2-ETHANEDIAMINE, N-(3-(TRIMETHO XYSILYL)PROPYL)-	1760-24-3	NO	NO
TETRAETHYLENE POLYAMINES	112-57-2	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>
1,2-DIAMINOCYCLO HEXANE	694-83-7	YES	YES	YES, 211-776-7	YES
SALICYLIC ACID	69-72-7	YES	YES	YES, 200-712-3	YES
PHENOL, 2,4,6-TRIS [(DIMETHYLAMINO) METHYL]	90-72-2	YES	YES	YES, 202-013-9	YES
CYCLOALIPHATIC AROMATIC POLYAMINE REGISTRY # 5336 FILING DATE – 01/28/02	TRADE SECRET	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
DIETHYLENE TRIAMINE	111-40-0	YES	YES	YES, 203-865-4	YES

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HEXAMETHYLENE DIAMINE	124-09-4	YES	YES	YES, 204-679-6	YES
BENZYL ALCOHOL	100-51-6	YES	YES	YES, 202-859-9	YES
POLYETHYLENE POLYAMINES	29320-38-5	YES	YES	NO	YES
1,2-ETHANEDIAMINE, N-(3-(TRIMETHO XYSILYL)PROPYL)-	1760-24-3	YES	YES	YES, 217-164-6	YES
TETRAETHYLENE POLYAMINES	112-57-2	YES	YES	YES, 203-986-2	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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