

**PRODUCT: E-Primer Cure** 

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 1 of 10

## **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 Cure

(AS USED ON LABEL AND LIST):

**PRODUCT USE:** Curing Agent for E-Primer Base Coating for Pipelines

PRODUCT I.D. NUMBER (PIN): N/A

## **SECTION 2 - HAZARDS IDENTIFICATION**

## **ADVERSE HEALTH EFFECTS:**

ADVERSE EYE, SKIN AND RESPIRATORY EFFECTS. SENSITIZATION MAY OCCUR WITH PROLONGED SKIN CONTACT.

## **ENVIRONMENTAL EFFECTS:**

**NOT AVAILABLE** 

## PHYSICAL AND CHEMICAL HAZARDS:

THERMAL DECOMPOSITION MAY CAUSE THE RELEASE OF TOXIC, IRRITATING AND FLAMMABLE PRODUCTS, OXIDES OF NITROGEN, CARBON (CO, CO<sub>2</sub>), CARBOXYLIC ACIDS, ALDEHYDES.

#### SPECIFIC HAZARDS:

**ELEVATED TEMPERATURES** 

## **CARCINOGENICITY INFORMATION:**

NOT AVAILABLE

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 2 of 10

## **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	<u>CAS #</u>	EU- EINECS	<u>%</u>	HAZARD SYMBOLS	<u>RISK</u> <u>PHRASES</u>
PHENOL, 4,4'-(1- METHYLETHYLIDENE)BIS-	80-05-7	201-245-8	10-30	$X_n$	R37, R41, R43, R62, R52
1-(2-,AMINOETHYL) PIPERAZINE (AEP)	140-31-8	205-411-0	10-30	С	R21/22, R34, R43, R52/53
NONYL PHENOL	25154-52-3	246-672-0	10-30	C, N	R22, R34, R62, R63, R50/53
POLYETHYLENEPOLYAMINES	29320-38-5	NA	10-30	$X_n$	R22, R36
BENZYL ALCOHOL	100-51-6	202-859-9	5-10	$X_n$	R20/22
BENZYLDIMETHYLAMINE	103-83-3	203-149-1	1-5	С	R10, R20/21/22, R34, R52/53
1,2-ETHANEDIAMINE, N-(3- (TRIMETHOXYSILYL)PROPYL-	1760-24-3	217-164-6	1-5		
TETRAETHYLENE POLYAMINES	112-57-2	203-986-2	1-5	C, N	R21/22, R34, R43, R51/53

## **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 ATTENTION.

## **INHALATION:**

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

#### INGESTION:

SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

### NOTE TO PHYSICIAN:

**NOT AVAILABLE** 

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 3 of 10

#### **SECTION 5 - FIRE-FIGHTING MEASURES**

#### **SUITABLE EXTINGUISHING MEDIA:**

WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE

#### FIRE-FIGHTING HAZARDS:

**NOT AVAILABLE** 

#### FIRE-FIGHTING PERSONAL PROTECTIVE EQUIPMENT:

USE SELF CONTAINED BREATHING APPARATUS DURING FIREFIGHTING

#### FIRE-FIGHTING PROCEDURES:

DO NOT USE DIRECT STREAM OF WATER

#### THERMAL DECOMPOSITION BY-PRODUCTS:

THERMAL DECOMPOSITION MAY CAUSE THE RELEASE OF TOXIC, IRRITATING AND FLAMMABLE PRODUCTS, OXIDES OF NITROGEN, CARBON (CO, CO<sub>2</sub>), CARBOXYLIC ACIDS, ALDEHYDES.

#### **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. ALL EQUIPMENT MUST BE GROUNDED.

#### STORAGE REQUIREMENTS:

COOL DRY ENVIRONMENT AWAY FROM INCOMPATIBLE MATERIALS AND ALL SOURCES OF IGNITION.

## **INCOMPATIBLE MATERIALS:**

STRONG ACIDS, OXIDIZERS (PERCHLORATES, NITRATES)

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 4 of 10

#### **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.

RESPIRATORY/TYPE: WEAR A NIOSH 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.

### **INGREDIENT EXPOSURE DATA:**

INGREDIENT	CAS#	LD <sub>50 (species</sub>	LC <sub>50 (species</sub>	OSHA (PEL) TWA	ACGIH (TLV) TWA
PHENOL, 4,4'-(1- METHYLETHYLIDENE) BIS-	80-05-7	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
1-(2-,AMINOETHYL) PIPERAZINE (AEP)	140-31-8	Rat, Oral: 2140 mg/kg Rat, Dermal: 880 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
NONYL PHENOL	25154-52-3	Mouse, Oral: 1231 mg/kg Rabbit, Dermal: 2140 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
POLYETHYLENE POLYAMINES	29320-38-5	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
BENZYL ALCOHOL	100-51-6	Rat, Oral: 1230 mg/kg Rabbit, Dermal: 2000 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 5 of 10

BENZYLDIMETHYL AMINE	103-83-3	Rat, Oral: 265 mg/kg Rabbit, Dermal: 1660 mg/kg	Mouse, 2H: 1800 mg/m <sup>3</sup>	NOT AVAILABLE	NOT AVAILABLE
1,2-ETHANEDIAMINE, N-(3- (TRIMETHOXYSILYL) PROPYL-	1760-24-3	Rat, Oral: 7460 mg/kg	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
TETRAETHYLENE	112-57-2	NOT	NOT	NOT	NOT

AVAILABLE AVAILABLE AVAILABLE

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

## PHYSICAL DATA:

**POLYAMINES** 

PHYSICAL STATE: LIQUID

FORM: MODERATELY VISCOUS

COLOUR: AMBER

ODOUR: AMMONIACAL ODOUR THRESHOLD (PPM): **NOT AVAILABLE BOILING POINT:**  $> 392^{\circ}F (200^{\circ}C)$ FREEZING POINT: **NOT AVAILABLE MELTING POINT: NOT AVAILABLE EVAPORATION RATE:** NOT AVAILABLE VAPOUR PRESSURE (mmHg): **NOT AVAILABLE** VAPOUR DENSITY (AIR = 1): **NOT AVAILABLE NOT AVAILABLE** pH:

SPECIFIC GRAVITY (WATER = 1): 1.040

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE SOLUBILITY IN WATER: PARTIALLY SOLUBLE

## **SECTION 10 - STABILITY AND REACTIVITY**

## **CONDITIONS TO AVOID:**

**ELEVATED TEMPERATURES** 

## **MATERIALS TO AVOID:**

STRONG ACIDS, OXIDIZERS (PERCHLORATES, NITRATES)

## **STABILITY AND REACTIVITY DATA:**

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

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 6 of 10

### **FLAMMABILITY DATA:**

DECOMPOSITION TEMPERATURE: NOT AVAILABLE

FLASHPOINT: > 244°F (118°C) closed cup

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

## HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY CAUSE THE RELEASE OF TOXIC, IRRITATING AND FLAMMABLE PRODUCTS, OXIDES OF NITROGEN, CARBON (CO, CO<sub>2</sub>), CARBOXYLIC ACIDS. ALDEHYDES.

## **EXPLOSION DATA:**

STATIC DISCHARGE:

MECHANICAL IMPACT:

LOWER EXPLOSIVE LIMIT, LEL (%):

UPPER EXPLOSIVE LIMIT, UEL (%):

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

## **SECTION 11 - TOXICOLOGY INFORMATION**

## **EFFECTS FROM EYE CONTACT:**

SEVERE IRRITANT. BURNS OF EYES MAY SEVERELY DAMAGE CONTACTED TISSUE AND PRODUCE SCARRING.

## **EFFECTS FROM SKIN CONTACT:**

CAUSES CHEMICAL BURNS. SEVERE IRRITANT. MAY CAUSE ALLERGIC SKIN REACTION

#### **EFFECTS FROM INHALATION:**

SEVERE RESPIRATORY TRACT IRRITANT, MAY SEVERELY DAMAGE CONTACTED TISSUE AND PRODUCE SCARRING

## **EFFECTS FROM INGESTION:**

HARMFUL IF SWALLOWED. MAY CAUSE DEATH UNLESS TREATED PROMPTLY.

## **TOXICOLOGICAL DATA:**

EFFECTS OF ACUTE EXPOSURE: SEE ABOVE

EFFECTS OF CHRONIC EXPOSURE: ADVERSE EYE, SKIN AND RESPIRATORY EFFECTS. SENSITIZATION MAY OCCUR WITH

DDOLONOED OVIN CONTACT

PROLONGED SKIN CONTACT.

IRRITANCY OF MATERIAL: SEE ACUTE EFFECTS

SENSITIZING CAPABILITY: YES

CARCINOGENICITY OF MATERIAL: NOT AVAILABLE

REPRODUCTIVE TOXICITY: POSSIBLE RISK OF IMPAIRED FERTILITY
TERATOGENICITY: POSSIBLE RISK OF HARM TO THE UNBORN

CHILD

MUTAGENICITY: NOT AVAILABLE SYNERGISTIC MATERIALS: NOT AVAILABLE

PRODUCT: E-Primer Cure

REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 7 of 10

## **SECTION 12 - ECOLOGICAL INFORMATION**

## **ECOTOXICITY DATA:**

TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

## 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** 

#### **SECTION 14 - TRANSPORT INFORMATION**

## SHIPPING INFORMATION:

SHIPPING NAME: E-Primer Cure - AMINES, LIQUID, CORROSIVE, N.O.S.

PIN/UN NUMBER: UN 2735

PACKING GROUP: III

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

PRODUCT: E-Primer Cure
REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 8 of 10

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:



EUROPEAN CLASSIFICATION







RISK PHRASES R10, R20/21/22, R34, R36, R37, R41, R43, R50/53, R62, R63

SAFETY PHRASES S1/2, S26, S36/37/39, S45, S46, S60, S61

## **COMPONENT ANALYSIS – LIST STATUS:**

INGREDIENT	CAS#	CANADA WHMIS IDL	US CERCLA PRIORITY LIST
PHENOL, 4,4'-(1- METHYLETHYLIDEN E)BIS-	80-05-7	YES	NO
1-(2-,AMINOETHYL) PIPERAZINE (AEP)	140-31-8	YES	NO
NONYL PHENOL	25154-52-3	YES	NO
POLYETHYLENE POLYAMINES	29320-38-5	NO	NO
BENZYL ALCOHOL	100-51-6	YES	NO
BENZYLDIMETHYL AMINE	103-83-3	YES	NO
1,2-ETHANEDIAMINE, N-(3- (TRIMETHOXYSILYL) PROPYL-	1760-24-3	NO	NO
TETRAETHYLENE POLYAMINES	112-57-2	YES	NO

**PRODUCT: E-Primer Cure** 

**REVISION DATE: Jun 3<sup>rd</sup>, 2009** Page 9 of 10

## **COMPONENT ANALYSIS – INVENTORY STATUS:**

INGREDIENT	CAS#	CANADA- DSL	<u>US-</u> TSCA	EU- EINECS	AUSTRALIA -AICS
PHENOL, 4,4'-(1- METHYLETHYLIDENE) BIS-	80-05-7	YES	YES	YES, 201-245-8	YES
1-(2-,AMINOETHYL) PIPERAZINE (AEP)	140-31-8	YES	YES	YES, 205-411-0	YES
NONYL PHENOL	25154-52-3	YES	YES	YES, 246-672-0	YES
POLYETHYLENE POLYAMINES	29320-38-5	YES	YES	NO	YES
BENZYL ALCOHOL	100-51-6	YES	YES	YES, 202-859-9	YES
BENZYLDIMETHYL AMINE	103-83-3	YES	YES	YES, 203-149-1	YES
1,2-ETHANEDIAMINE, N-(3- (TRIMETHOXYSILYL) 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. (416) 743-7111 July 7<sup>th</sup> 2006 **TELEPHONE NUMBER:** DATE PREPARED:

# **ADDITIONAL INFORMATION:**

EUROPEAN/INTERNATIONAL HAZARD SYMBOLS AND RISK AND SAFETY PHRASES

## HAZARD SYMBOLS:

X<sub>n</sub>: **HARMFUL** C: CORROSIVE

N: DANGEROUS FOR THE ENVIRONMENT

PRODUCT: E-Primer Cure
REVISION DATE: Jun 3<sup>rd</sup>, 2009 Page 10 of 10

#### RISK PHRASES:

R10: FLAMMABLE

R20/22: HARMFUL BY INHALATION AND IF SWALLOWED

R20/21/22: HARMFUL BY INHALATION IN CONTACT WITH SKIN AND IF SWALLOWED

R21/22: HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED

R22: HARMFUL IF SWALLOWED

R34: CAUSES BURNS R36: IRRITATING TO EYES

R37: IRRITATING TO THE RESPIRATORY SYSTEM
R41: RISK OF SERIOUS DAMAGE TO THE EYES
R43: MAY CAUSE SENSITIZATION BY SKIN CONTACT

R62: RISK OF IMPAIRED FERTILITY

R63: POSSIBLE RISK OF HARM TO THE UNBORN CHILD

R50/53: VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT

R51/53: TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN

THE AQUATIC ENVIRONMENT

R52: HARMFUL TO AQUATIC ORGANISMS

R52/53: HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS

IN THE AQUATIC ENVIRONMENT

#### **SAFETY PHRASES:**

S1/2: KEEP LOCKED AND OUT OF REACH OF CHILDREN

S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER

AND SEEK MEDICAL ADVICE

S36/37/39: WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYES/FACE PROTECTION

S45: IN CASE OF AN ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE

IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE)

S46: IF SWALLOWED, SEEK MEDICAL ADVISCE IMMEDIATELY AND SHOW THIS

**CONTAINER OR LABEL** 

S60: THIS MATERIAL AND/OR ITS CONTAINER MUST BE DISPOSED OF AS HAZARDIOUS

WASTE.

S61: AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS /

SAFETY DATA SHEETS

DISCLAIMER: THIS INFORMATION IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE. IT IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED. CANUSA-CPS, A DIVISION OF SHAWCOR LTD. ASSUMES NO LEGAL RESPONSIBILITY FOR THE USE OF, OR RELIANCE UPON, THIS DATA FOR HAZARDS WHICH MIGHT BE ASSOCIATED WITH THE USE OF THESE MATERIALS OR FOR RESULTS OBTAINED. IT IS THE RESPONSIBILITY OF THE USER TO 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.