

## Material Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY INFORMATION

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### PRIMER 94

Product ID:  
70-0160-5476-2                      70-0160-5477-0                      70-0160-5478-8                      70-0705-7964-7  
70-0160-5507-4                      70-0160-5506-6                      70-0160-5508-2                      70-0707-4298-9  
70-0160-5497-8                      70-0160-5499-4                      70-0160-5500-9                      70-0160-5501-7  
70-0160-4782-4

Intended Use of Product: Adhesive primer.  
Division: ENGINEERED ADHESIVES

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percentage
CYCLOHEXANE	110-82-7	45 - 50
XYLENE	1330-20-7	10 - 30
ETHYLALCOHOL	64-17-5	5 - 10
ETHYLBENZENE	100-41-4	5 - 10
ETHYLACETATE	141-78-6	1 - 5
ACRYLIC POLYMER (NJTS#04499600-5984P)	Trade Secret	1 - 5
CHLORINATEDPOLYETHYLENE	68609-36-9	1 - 5
ISOPROPYLALCOHOL	67-63-0	0.1 - 1

NOTE: ACRYLIC POLYMER is a non-hazardous Trade Secret material according to WHMIS criteria.

### SECTION 3: HAZARDS IDENTIFICATION

#### Critical Hazards

Flammable liquid and vapor. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision. Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

Inhalation may cause: Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, in coordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Harmful or fatal if swallowed. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined. See Sections 7 and 11 for further information.

#### **SECTION 4: FIRST AID MEASURES**

Instructions for Eye Contact: Immediately flush eyes with large amounts of water. Get immediate medical attention.

Instructions for Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Instructions for Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Instructions for Ingestion: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

#### **SECTION 5: FIRE FIGHTING MEASURES**

Flash point:	Approximately -20 C OC ASTM D92
Lower Explosive Limit (%):	Approximately 1 % calculated
Upper Explosive Limit (%):	Approximately 6 % calculated
Autoignition temperature:	Not available

Suitable Extinguishing Media: Water spray; Carbon Dioxide; Dry chemical; Foam

Exposure Hazards during Fire: Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire: Carbon monoxide and carbon dioxide

Fire Fighting Procedures: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Spill Response: Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with absorbent material. Cover spill area with Light Water Brand or other ATC foam. (For further information on ATC foam usage, contact 3M Fire Protection Systems.) Collect using non-sparking tools. Clean up residue. Place in an approved metal container. Seal the container.

Methods for Disposal: Incinerate in a permitted hazardous waste incinerator. Combustion products will include HCl.

#### **SECTION 7: HANDLING AND STORAGE**

Storage Requirements: Keep container closed when not in use.

Incompatible Materials: Store away from heat. Sparks and/or Flames

Fire Prevention: No smoking while handling this material.

Explosion Prevention: Flammable liquid and vapor. Keep away from heat, sparks, open flame, and other sources of ignition.

Static Prevention: Avoid static discharge.

Use Instructions: Keep container tightly closed. For industrial or professional use only.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### Personal Protection

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**Eye Protection:** Avoid eye contact with vapor, spray, or mist. Wear safety glasses with side shields.

**Hand Protection:** Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: fluoroelastomer (Viton);

**Skin Protection:** Avoid skin contact.

**Respiratory Protection:** Avoid prolonged breathing of vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants: half-mask organic vapor respirator; full-face organic vapor respirator;

**Ingestion (Prevention):** DO NOT INGEST.

**Recommended Ventilation:** Local exhaust is required for operations using large amounts of material. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

### Ingredient Exposure Data

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#### CYCLOHEXANE (110-82-7)

LD50 (rat, oral): 12,705 mg/kg  
PIN (Product Identification Number): 1145  
Ontario TWAEV: 300 ppm 1030 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 300 ppm 1030 mg/m<sup>3</sup>

#### XYLENE (1330-20-7)

LD50 (rat, oral): 3523 mg/kg (rat, male)  
LC50 (rat, inhalation/4 hours): 5000 ppm  
PIN (Product Identification Number): 1307  
Ontario TWAEV: 100 ppm 435 mg/m<sup>3</sup>  
Ontario STEV: 150 ppm 650 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 100 ppm 434 mg/m<sup>3</sup>  
ACGIH TLV-STEL: 150 ppm 651 mg/m<sup>3</sup>  
Specific Ingredient Data: LD50 (rabbit, dermal):  
> 5 ml/kg

#### ETHYLALCOHOL(64-17-5)

LD50 (rat, oral): 7060 mg/kg  
LC50 (rat, inhalation): 20000 ppm / 10 hours.  
PIN (Product Identification Number): UN 1170  
Ontario TWAEV: 1000 ppm 1900 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 1000 ppm 1880 mg/m<sup>3</sup>

#### ETHYLBENZENE (100-41-4)

LD50 (rat, oral): 3500 mg/kg  
LC50 (rat, inhalation/4 hours): 4000 ppm  
PIN (Product Identification Number): UN 1175  
Ontario TWAEV: 100 ppm 434 mg/m<sup>3</sup>  
Ontario STEV: 125 ppm 540 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 100 ppm 434 mg/m<sup>3</sup>  
ACGIH TLV-STEL: 125 ppm 543 mg/m<sup>3</sup>

#### ETHYLACETATE (141-78-6)

LD50 (rat, oral): 5600 mg/kg  
LC50 (rat, inhalation/4 hours): 19600 ppm  
PIN (Product Identification Number): 1173  
Ontario TWAEV: 400 ppm 1440 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 400 ppm 1440 mg/m<sup>3</sup>  
Specific Ingredient Data: LD50 (rabbit, dermal):  
> 18 g/kg

#### CHLORINATED POLYETHYLENE (68609-36-9)

Specific Ingredient Data: No data available.

#### ISOPROPYLALCOHOL(67-63-0)

LD50 (rat, oral): 4710 mg/kg  
LC50 (rat, inhalation/4 hours): 17000 ppm  
PIN (Product Identification Number): 1219  
Ontario TWAEV: 400 ppm 980 mg/m<sup>3</sup>  
Ontario STEV: 500 ppm 1225 mg/m<sup>3</sup>  
ACGIH TLV-TWA: 400 ppm 985 mg/m<sup>3</sup>  
ACGIH TLV-STEL: 500 ppm 1230 mg/m<sup>3</sup>

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical form,Color,Odor: Liquid; amber; solvent odor;

Odor Threshold: No data available.

pH: Approximately 5.5

Boiling point/boiling range: 76.6 - 137.7 C  
Estimated, based on composition

Melting point/melting range: Not applicable

Vapor pressure: Approximately 68 mmHg  
calculated @ 25 C

Water Solubility: Approximately 10 %

Partition coefficient (K o/w): No data available.

Specific gravity: Approximately 0.82 g/ml

Vapor density: Approximately .0043 g/cc  
calculated @ 100 C

Volatile organic compounds: Approximately 750  
gms/liter SCAQMD Calculated

Evaporation rate: Approximately 6.4 xylene=1  
calculated

Viscosity: 30 - 40 centipoise

## SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid: None known.

Materials to Avoid: Heat; Sparks and/or Flames;

Hazardous Decomposition: Carbon monoxide and carbon dioxide;

Stability and Reactivity: Stable. Hazardous polymerization will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

Effects from Eye Contact: Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Effects from Skin Contact: Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

Effects from Inhalation: Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, in coordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Effects from Ingestion: Harmful or fatal if swallowed. Gastrointestinal Effects: signs/symptoms generally will include abdominal pain. Central

Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, in coordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions. Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Sensitization Information: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.

Reproductive Effects: High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Other Effects and Information: Not determined. Since regulations vary, consult applicable regulations or authorities before disposal.

### SECTION 13: DISPOSAL INFORMATION

Product as Sold: No data available.

Product Packaging: No data available.

Special Instructions: Since regulations vary, consult applicable regulations or authorities before disposal.

### SECTION 14: TRANSPORTATION INFORMATION

TDG Classification: 70-0160-5476-2: Regulated Material  
70-0160-5477-0 & 70-0160-5478-8: Consumer Commodity

Proper Shipping Name: RESIN SOLUTION  
Class/Division: 3.0  
UN Number: UN 1866  
Packing Group: II

International Dangerous Goods Classification

IMO Class: No data available.  
ICAO Class: No data available.

### SECTION 15: REGULATORY INFORMATION

WHMIS Classification: B2, D2A, D2B

NOTE: 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.

Product Certifications: The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- DSL - Domestic Substances List (Canada)
- TSCA - Toxic Substances Control Act (USA)
- EINECS - European Inventory of Existing Commercial Chemical Substances
- AICS - Australian Inventory of Chemical Substances

### SECTION 16: OTHER INFORMATION

Reason for Reissue: The following Sections and topics have been updated or revised: Section 12 - Ecological Information - Other Effects and Information; WHMIS Classification change

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