### MATERIAL SAFETY DATA SHEET

#### NORMAC ADHESIVE PRODUCTS

NR-7S Part "A"

SECTION I - SUPPLIER AND MATERIAL IDENTIFICATION

4390 Corporate Drive

Burlington, Ontario L7L 5R3

Normac Adhesive Products Inc.

Tel: (905) 332-6455 Fax: (905) 332-6880

Emergency Phone Number Only: (Canutec) (613) 996-6666

Product Class: Sprayable Polyurethane Prepolymer

Chemical Family: Aliphatic Ether

Supplier's Name:

Trade Name: NR-7S Part "A"

Cas No.: Mixture

# SECTION II - HAZARDOUS INGREDIENTS

 Cas No.
 % Content
 TLV (ppm)

 Methylene bis (cyclohexylisocyanate)
 5124-30-1
 1-5
 0.005 (ACGIH 1988-89)

 Dichloromethane
 75-09-2
 30-45
 50 ppm (ACGIH)

### SECTION III - PHYSICAL DATA

Physical Data: Clear viscous liquid

Specific Gravity: 1.20

Boiling Point: Not established - decomposes

Freezing Point: Not established

% Volatility: 38%

Vapour Pressure: 550 mm Hg @ 55°C

#### SECTION IV - FIRE AND EXPLOSION DATA

Flash Point:

250°C TCC

Auto Ignition Temp:

Not established

Flammable Limits in air:

Not determined

Fire Fighting Procedure: Wear self contained breathing apparatus in confined areas or when exposed to combustion products.

Unusual Hazards: "Cyanate" vapours may liberate under burning conditions. Only minute traces detected.

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#### SECTION V - REACTIVITY DATA \_\_\_\_\_\_\_

Stability: Stable at ambient temperatures and pressure

Hazardous Polymerization: Will not occur

Incompatibility: Avoid contamination with water and strong oxidizers and foreign matter.

Hazardous Decomposition Products: Thermal decomposition may produce hydrogen cyanide and

oxides of nitrogen and carbon.

#### \_\_\_\_\_\_\_\_ SECTION VI - HEALTH RELATED DATA

Specific Hazard:

Potential skin, eye and respiratory irritant

**Exposure Limits:** 

HMDI: TWA TLV 0.05 (ACGIH 1988-89)

Routes of Exposure:

Inhalation, skin, eye contact

Effects of Overexposure: HMDI vapour is very toxic. Contact with skin or eyes may cause irritation. Due to the low vapour pressure at ambient temperature these vapours are minimal. Actual tests carried out during application by the Clayton Environmental Consultants ranged from 0.0006 ppm to 0.001 ppm. Clayton Project No.24132.00 July 10, 1989. No carcinogenic, reproductive or teratorganic effects or toxicologically synergistic material have been identified.

#### FIRST AID

Eyes: Immediately flush with plenty of flowing water for at least 15 minutes. Get medical attention.

Skin: Wipe off excess material with clean cloth. Clean exposed area with isopropanol followed by soap and water. Remove clothing if contaminated and launder before reuse. Seek medical attention if irritation persists or dermatitis develops.

Inhalation: Remove to fresh air, restore or aid breathing if required. Get medical attention.

Ingestion: Do not induce vomiting, Get medical attention.

## SECTION VII - SPILL, LEAK PROCEDURES

Storage and Handling: Store at room temperature away from heat and moisture. Handle only in well ventilated area. Use personal equipment for protection of eyes and skin.

Spills: Cover spills with inert absorbent material. Wear full protective equipment including self contained breathing apparatus. Saturate spill with excess neutralizing solution (1% ammonia in water + 10% isopropanol). Ventilate the area.

Waste Disposal: In accordance to local, state/provincial and federal regulations.

Environmental Information: Environmental effects have not been determined.

# SECTION VIII - CONTROL MEASURES

Respiratory Protection: Approved atmospheric supply respirator in pressure demand or other positive pressure modes.

Protective Gloves: Impervious PVA gloves

Eye Protection: Chemical safety goggles

Ventilation: Sufficient ventilation to prevent against exposure to vapours.

Clothing: Protective clothing to cover exposed skin.

### SECTION IX - REGULATORY INFORMATION

WHMIS:

D.1.A. - Very toxic - Acute lethality

D.2.A. - Very toxic - Respiratory SensitizerD.2.B. - Toxic - Skin Irritant and Sensitizer

Proper Shipping Name:

Dichloromethane

Labelling:

Poison Label

TDG:

UN 1593 Cl. 6.1 Pkg. III

(IATA and IMO)

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