

# MATERIAL SAFETY DATA SHEET

Southern Polyurethanes, Inc.

Blairsville. GA 30514

ChemTrec: 800.424.9300

## #600-4 Adhesion Promoter

03/2009

< 2.1 Voc Ready to spray:

### **Section 1: Product Identification**

Product Identification: Plastic Adhesion Promoter

OSHA Hazard Class: Flammable Liquid

DOT Shipping Class: Paint Related Material UN1263

Hazardous Material Information: See Section 10

### **Section 2: Hazardous Ingredients**

\* Denotes 15-minutes / \*\* Denotes 10-minutes / (S) = Supplier / NE = Not Established

**CAS # INGREDIENT**

**VAPOR**

**PRESSU**

**RE 20°C**

**(MMHg)**

**SARA 313**

## REPORT OSHA ACGIH STEL CEILING

N/E Acrylic Resin N/E **No** N/A N/A N/A N/A

1330-20-7 Xylene (Note A) 25.00 **Yes** 100 ppm 100 ppm 150 ppm 200 ppm \*\*

123-86-4 N Butyl Acetate 8.40 **No** 150 ppm 150 ppm 200 ppm\* ----

64742-94-5 Aromatic Hydrocarbon Mixture 0.20 **No** 10 ppm 10 ppm 15 ppm ----

108-65-6 Methoxy Propyl Acetate 3.80 **No** N/E N/E N/E ----

67-64-1 Acetone 181.00 **No** 750 ppm 750 ppm 1000 ppm\* ----

628-63-7 Amyl Acetate 4.00 **No** 10 ppm 10 ppm 15 ppm ----

98-56-6 Benzene,1-Chloro-4(Trifluoromethyl) 5.3 **No** N/E N/E N/E 25ppm

28182-81-2 Aliphatic Polyisocyanate Resin Unknown **No** .5 mg/m<sup>3</sup>

(s) N/E 1.0 mg/m<sup>3</sup>\* ----

108-88-3 Toluene 36.00 **Yes** 100 ppm 50 ppm 150 ppm 200 ppm\*\*

108-10-1 Methyl Isobutyl Ketone 15 **Yes** 100 ppm 50 ppm 75 ppm ----

78-93-3 Methyl Ethyl Ketone 70 **Yes** 200 ppm 200 ppm 300 ppm ----

Note A: Technical grade Xylene contains 18-20% Ethylbenzene (100-41-4), which has 100 ppm PEL, 100 ppm TLV, 125 ppm STEL, and is subject to

the reporting requirements of Section 313 of Sara Title III.

See Section 10 for specific ingredients and SARA 313 reportable wt. % data.

## Section 3: Physical Data

*Boiling Range:* 174 °F - 344 °F *Evaporation Rate:* Slower than Ether

*Solubility in H<sub>2</sub>O:* Slightly Miscible – Miscible *Vapor Density:* Heavier than Air

*Volatile (%) by Volume:* 81% *Volatile % by Weight:* 82%

*Weight Per Gallon:* 9.25 lbs/gallon

## Section 4: Fire and Explosion Hazard Data

**Flash Point:** See Section 10

**Flammable Limits:** 0.8% - 13.0%

**Extinguishing Media:**

Water Spray (for Containment), Foam, Carbon Dioxide, Dry Chemical.

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**Special Fire Fighting Procedures:** Full protective equipment, including self-contained breathing apparatus, is

recommended. Water from fogging nozzles may be used to cool closed containers to prevent pressure build up

preventing rupturing. Do not use direct water stream on combustible or flammable liquid fires.

**Unusual Fire and Explosion Hazards:** When heated above the defined flash points, these solvents emit flammable

vapors, which when mixed with air, can burn or be explosive when exposed to any ignition source. Fine mists or spray

may be flammable at temperatures below the flash point.

**Section 5: Health Hazards Data****General Effects:****If Ingested:**

Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of the

ingredients available.

**If Inhaled:**

May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and

nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent

levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This

effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in

lung function, which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be

exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If

breathing difficulty persists, or occurs later, consult a physician.

**If Skin or Eye Contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort

and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15-minutes; call a physician. In

case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

**Specific Effects:**

**Ethyl Benzene:** (Contributed from Xylene) Moderate toxicity by irritation to the skin, eyes, mucous membranes and by

ingestion and inhalation routes. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene

and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in

experimental animals, but inadequate evidence for cancer in exposed humans.

**nButyl Alcohol:** May cause chemical burns to eyes. May cause abnormal blood forming function with anemia.

Reoccurring overexposure may result in liver and kidney injury.

**Xylene:** High concentrations have caused embryo toxic effects in laboratory animals. Reoccurring overexposure may

cause liver or kidney damage. Can be absorbed through the skin in harmful amounts.

**nButyl Acetate:** May cause abnormal liver function.

**Aromatic Hydrocarbons, Solvent 100, VMP Naphthas, Lt. Aliphatic Naphtha & Mineral Spirits:** Laboratory studies

with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not

seen in similar studies with guinea pigs, dogs or monkeys. Several studies evaluating petroleum workers have not shown

a significant increase in kidney damage or an increase in liver tumors.

**Methoxy Propyl Acetate:** May cause moderate eye burning. Continuous re-over exposures may result in liver and

kidney injury.

**Amyl Acetate:** May cause abnormal liver function.

## **Section 6: Reactivity Data**

**Stability:** Stable

**Incompatibility (Materials to Avoid):** None reasonably foreseeable.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, Smoke

**Hazardous Polymerization:** Will not occur.

## **Section 7: Spill or Leak Procedures**

### **Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear a properly fitted

vapor/particulate respirator (NIOSH/MSHA TC-23C). Confine and remove with inert absorbent.

### **Waste Disposal Method:**

Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal,

state and local requirements. Do not incinerate in closed containers.

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## **Section 8: Special Protection Information**

### **Respiratory:**

Do not breathe vapors or mists. Wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C) or equivalent

while mixing activator with any paint or clear, during application and until all vapors and spray mists are exhausted.

Individuals with a history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to

this product. Do not permit anyone without protection in the painting area. Follow the respirator manufacturer's directions

for respirator use.

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

**Protective Clothing:**

Neoprene gloves and coveralls are recommended.

**Eye Protection:**

Desirable in all industrial situations. Include splashguards or side shields.

## **Section 9: Special Precautions**

**Precautions to be taken in handling and storing:**

Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers

when pouring. Wash all exposed areas thoroughly after handling and before eating or smoking. Do not store above

120°F.

**Other Precautions:**

Do not sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

## **Section 10: Other Information Product Specifications**

For each product part number and chemical listed below, the chemicals that have weight percentages in parenthesis are

subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and 40

CFR 372.

Toluene, Xylene, Proprietary Resin, Methyl Ethyl Ketone, nButyl Acetate, Benzene, 1-Chloro-4(Trifluoromethyl), Acetone

**Gallon Weight:** 9.25 lbs **Flash Point:** 0 °F

**Wt % Solids:** 18% **Material VOC:** 2.1 lbs/gallon

**Vol. % Solids:** 18.5% **Coating VOC:** 2.1 lbs/gallon

**OSHA Storage:** 1B **Solvent Density:** 9.75 lbs/gallon

**Xylene:** When present, it can be assumed 18-20% of the weight % reported is Ethylbenzene.

**Flash Point:** Determined by TCC, expressed in degrees Fahrenheit.

**Coating VOC:**  $W_s - W_w - W_{ex} \div V_t - V_w - V_{ex}$  Represents VOC per EPA Method 24.

**Material VOC:**  $W_s - W_w - W_{ex}$

**Where:**  $W_s$  = total solvent weight  $V_{ex}$  = Volume of exempt solvent

$W_w$  = weight of water  $V_w$  = volume of water

$W_{ex}$  = weight of exempt solvent  $V_t$  = total volume

**WARNING: KEEP THIS AND ALL PAINT RELATED PRODUCTS OUT OF THE REACH OF CHILDREN!**

End of MSDS 03/2009