MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **AP-5150 PART 'A'**
PRODUCT TYPE: Solvented urethane solution, part 'A' of a product applied only as 'A' + 'B' mixture

Simmons Industries, Inc.
16040 Central Commerce Drive
Pflugerville, TX 78660 USA

EFFECTIVE: 01/19/15
SUPERCEDES: 11/8/10

Emergency (INFOTRAC): **(800) 535-5053**
Contract # 84577

Customer Service: (877) 395-4637
(512) 990-8808

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TWA	ACGIH STEL	OSHA TWA	OHSA CEILING	UNITS
Toluene	108-88-3	55	100	150	200	300	ppm
Diphenylmethane Diisocyanate	26447-40-5	4	0.005	N.E.	N.E.	0.02	ppm
4,4'-Diphenylmethane Diisocyanate	101-68-8	3	0.005	N.E.	N.E	N.E.	ppm

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW : CAN CAUSE ALLERGIC RESPIRATORY REACTION AND POSSIBLE SENSITIZATION. HARMFUL IF INHALED. CAUSES SEVERE EYE IRRITATION. Flammable liquid and vapor. May cause skin, eye, and respiratory irritation with shortness of breath and chest tightness. See further sections.

EFFECTS OF ACUTE OVEREXPOSURE:

EYE CONTACT: Irritation, may be severe.

SKIN CONTACT: Irritation typically shown by reddening; but swelling, rash, scaling, or blistering is possible with certain individuals, moderate defatting of skin, dermatitis.

INHALATION: Irritation or burning sensitation of the mucous membranes and/or respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function, central nervous system effects which typically include dizziness, weakness, fatigue, nausea, and headache, however, unconsciousness and even death are also possible.

INGESTION: Possible irritation and corrosive action in the mouth, stomach tissue, and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting, and diarrhea.

EFFECTS OF CHRONIC OVEREXPOSURE:

EYE CONTACT: Possible conjunctivitis causing pain, tearing, reddening, and swelling.

SKIN CONTACT: May cause sensitization which can be either temporary or permanent.

INHALATION: Possible lung damage (including decrease in lung function) which may be permanent. Chronic overexposure to solvents can cause liver abnormalities, kidney, lung, and spleen damage.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT, EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of fresh water for at least 15 minutes. Hold the eyelids open all of the time. Seek medical attention quickly.

FIRST AID - SKIN CONTACT: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap, or tincture of green soap, and water for at least 15 minutes. Wash clothing thoroughly before reuse. For severe exposures, get under a safety shower after removing clothing, get medical attention, and consult a physician.

FIRST AID - INHALATION: Removed affected persons to fresh air. If breathing is difficult, administer oxygen. Seek medical attention. Asthmatic-type symptoms may develop, and may be immediate or delayed up to several hours.

FIRST AID - INGESTION: Immediately drink two glasses of water or milk. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

*** NOTE TO PHYSICIAN:** EYES: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision. Treat symptomatically as for contact dermatitis or thermal burns. INGESTION: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. RESPIRATORY: This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate material.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 40°F (4°C) T.C.C. (toluene component)

LOWER EXPLOSIVE LIMIT: 1.2 (toluene component)
UPPER EXPLOSIVE LIMIT: 7.1 (toluene component

AUTOIGNITION TEMPERATURE: 896°F (480°C) (toluene component)

OSHA FLAMMABILITY CLASSIFICATION: Flammable liquid - Class 3

EXTINGUISHING MEDIA: Alcohol foam, Carbon dioxide, Dry chemical, or Water spray (fog)

UNUSUAL FIRE AND EXPLOSION HAZARDS: Low flash point. All containers with this material should be electrically grounded.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode when fighting fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain any spills with dikes or absorbents to prevent migration into sewers, soil, or streams. Collect small spills with dry chemical absorbent. Large spills may be collected with pump and vacuum, and concluded with dry chemical absorbent. Contaminated soil may require excavation removal. Eliminate all ignition sources. Safely stop spill at their source if possible. If runoff occurs, notify proper authorities, as required, that a spill has occurred. *Persons not wearing the proper protective equipment should be excluded from the area of the spill until cleanup has been completed.*

SECTION 7 - HANDLING AND STORAGE

HANDLING: Keep containers closed when not in use. Use proper handling precautions designated for a very flammable substance. All label precautions must be observed when handling or transporting empty containers due to product residues. Neutralize residues with the appropriate substances for this material. Do not smoke or use ignition sources where this product is stored or used.

STORAGE: Keep away from heat, sparks, and open flame. Store in tightly sealed containers away from moisture and direct sunlight. Store at temperatures less than 80°F (26°C). This material has a shelf life of 6 months.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

RESPIRATORY PROTECTION: If working in conditions where PEL is exceeded, use a chemical cartridge mask, or air supply hood as required and/or approved by ANSI and OSHA. A NIOSH/MSHA approved supplied-air respirator is preferable. A cartridge respirator may be appropriate in certain circumstances where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits, and where organic solvents are present in the product to provide adequate warning properties. Isocyanate materials have poor warning (odor threshold) properties, therefore, cartridge respirators are NOT recommended. For emergencies, confined spaces, or other conditions where exposure limits may by greatly exceeded, an approved air-supplied respirator is required. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Wear resistant material equipment (consult your safety equipment supplier).

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; However, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT :	175°F (79°C)	**VAPOR DENSITY :**	Not Determined
APPEARANCE :	Thin yellow liquid	**ODOR THRESHOLD :**	Not Determined
PHYSICAL STATE :	Liquid (with flammable vapors)	**EVAPORATION RATE :**	2.0 (v. n-Butyl Acetate) (Solvent component)
ODOR :	Sharp, hydrocarbon	**DENSITY, LB/GAL :**	8.19
SOLUBILITY IN H_2O :	Reacts with water	**SPECIFIC GRAVITY :**	0.98
FREEZE POINT :	Not Determined	**pH :**	Not Applicable
VOLATILE BY WEIGHT :	50 %	**VOLATILE BY VOLUME :**	57 %
VOC:	4.1 lbs./gal. (488 g/L)	**VAPOR PRESSURE :**	Approximately 20mm @ 65° F (18°C)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures, sources of ignition.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat and fire: smoke containing carbon monoxide, carbon dioxide, oxides of nitrogen, traces of HCN, isocyanate-containing compounds, and solvent vapors. Reacts with water to form heat, CO_2, and insoluble ureas.

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable.

SECTION 11 - TOXICOLOGICAL INFORMATION

Contains a small amount of free Diphenylmethane Diisocyanate (MDI), an isocyanate material. Isocyanate materials are listed as carcinogenic in some animal studies, but inadequate evidence exists to conclude that isocyanates are definitely carcinogenic in humans.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state, and local environmental control regulations. If waste containing this product is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

Meets RCRA's characteristic definition of ignitability.

SECTION 14 - TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Adhesive
HAZARD CLASS: IATA/49CFR: 3 IMO: 3.2
PACKING GROUP: II
EMERGENCY RESPONSE GUIDE NUMBER: 126
UN/NA NUMBER: UN1133

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL:

OSHA: Hazardous by definition of the Hazard Communication Standard (29 CFR 1910.1200).

SARA SECTION 302: N.A.

SARA SECTION 313:

Toluene (108-88-3)
4,4'-Diphenylmethane Diisocyanate (101-68-8)

TSCA: This material is on the TSCA inventory.

STATE RIGHT-TO-KNOW:

CA: Prop. 65: Toluene (108-88-3)
PA: Toluene (108-88-3), Diphenylmethane Diisocyanate (26447-40-5), 4-4'-Diphenylmethane Diisocyanate (101-68-8)

CANADA:

Canada WHMIS: This product contains the following substances subject to the reporting requirements of the Canada WHMIS system:
Toluene (108-88-3)

SECTION 16 - OTHER INFORMATION

HMIS RATINGS: HEALTH 2 (chronic) FLAMMABILITY 3 REACTIVITY 1

KEY: N.E.=Not Established N.A.=Not Applicable N.D.=Not Determined

NOTE: The data in this Material Safety Data Sheet relates only to the material designated herein, and does not relate to use in combination with any other material, or in any process. The information herein is furnished free of charge, and is based upon technical data that Technical Urethanes, Inc. believes to be reliable, and to the best of our knowledge, accurately reflects the properties and effects of the hazardous components. This product is intended for use by persons having technical skills, and at their own discretion and risks. Because conditions of use of this material are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this material.

-END OF MSDS-