

**Material Safety Data Sheet**

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Date: 02/05

**Product Identification**

Chemical family: Synthetic Urethane Polymer  
Product name: **WRS-100 Component A**  
Formula: The specific chemical formula for this material is a trade secret of Industrial Polymers, Inc.  
Chemical name:  
Synonyms:  
C.A.S. number:

**Composition Information / Ingredients**

Ingredient Name / CAS Number	Exposure Limits	Concentration
Synthetic Urethane polymer	OSHA: No data ACGIH: no data	100%

**Hazardous Material Identification**

Primary route(s) of entry: ingestion.  
Eyes: eye irritant, possible eye irritation.  
Skin: skin irritant and possible skin sensitizer. Direct skin is the route most likely to cause sensitization. Once sensitized an individual may react to airborne levels below the TLV with the following symptoms, itching and tingling of the earlobe and hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. Any individual having a sensitization reaction to this material should be removed from exposure to any isocyanate.  
Inhalation: inhalation of vapors or spray mist may also cause irritation to the respiratory tract (dry throat, cough, shortness of breath and chest tightness). In addition sinusitis, bronchitis or respiratory sensitization (asthma-like symptoms) may occur. Exposure may cause nausea, headaches, dizziness or any other central nervous system effects.

**Emergency and first aid procedure**

Eyes: flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.  
Skin: wash exposed area thoroughly with soap and water. Be sure to wash contaminated clothing before reusing.  
Inhalation: move person into fresh air. Oxygen may be administered if available and needed. Seek medical attention immediately.  
Ingestion: **do not** induce vomiting. Give glass of water or milk to drink. **Do not** give anything by mouth to an unconscious person. Seek medical attention immediately.

**Fire and explosion hazard data**

Flash point: greater than 250 F Method PMCC  
Flammable limits (% by volume in air): LEL- 1.3 UEL ; 8.8 @ 77 F  
Auto ignition : 640 F  
Extinguishing media: water spray (fog), foam, dry chemical and carbon dioxide.  
Special fire fighting procedures: full protective equipment with self-contained breathing apparatus should be worn.  
Unusual fire and explosion hazards: keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Water spray may be used to cool closed containers and prevent pressure build-up. Empty containers may contain liquid or vapor which is flammable or explosive. **Do not** weld, burn or cut empty containers.

**Accidental release measures**

Shut off and eliminate all ignition sources. Ventilate confined spaces. Workers should avoid direct skin or eye contact or inhalation or vapors. Absorb on dry inert material. Package for disposal.

**Special precautions and storage data**

Storage temperature: 38° C maximum  
Shelf life: minimum one (1) year at 75° F (23° C)  
Keep containers closed when not in use. Keep away from heat, sparks and open flame. Store in tightly sealed containers and keep away from moisture and direct sunlight.  
Wear personal protective equipment when working on equipment that may be contaminated with material.

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**Personal protection**

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Respiratory protection: normally none but if working in conditions where TLV is exceeded use a chemical cartridge mask or air supply hood as required and/or approved by ANSI and OSHA.

Ventilation: use with adequate forced air mechanical ventilation in accordance with OSHA regulations. Ventilation must be sufficient to prevent vapors from exceeding exposure limit(s) or build up of explosive concentrations of vapor in air.

Skin and eye protection: chemical resistant gloves, apron or coveralls and face shield are required. If protective creams are used minimize the area protected only by the cream.

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**Physical properties**

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Appearance: medium viscosity clear liquid

Odor: aromatic

Color: clear

Boiling point: greater than 250F° F

Specific gravity: 0.882

Percent volatile (by volume): 0

Evaporation rate (ether = 1): less than 0.01

Vapor density (air = 1): 5.90

Solubility in water: negligible, reacts slowly with water to liberate carbon dioxide gas.

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**Stability and reactivity**

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Stability: stable under normal conditions.

Conditions to avoid: contact with moisture and other materials that react with isocyanate. Temperature above maximum storage temperatures.

Incompatibility: contact with water, alcohol's, amines and strong bases.

Hazardous decomposition products: by high heat and fire, carbon monoxide, carbon dioxide, oxides of nitrogen, traces of IICN isocyanate and solvent vapors.

Hazardous polymerization: will not occur under normal conditions.

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**Toxicological information**

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Refer to Emergency and first aid procedure section

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**Regulatory Information**

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TSCA: The Synthetic Isoparaffinic Hydrocarbon is listed on the TSCA Inventory

Clean Water Act/Oil Pollution Act: This product is classified as oil under Section 311 of the Clean water Act ( 40 CFR 110) and the Oil Pollution Act of 1990.

Discharge or spilling which produces a visible sheen on either surface water or in waterways/sewers which leads to surface water must be reported to the national response Center at 800-424-8802.

CERCLA: If this product is accidentally spilled it is not subject to any special reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

SARA Title III: Under the provisions of Title III Section 311/312 of the Superfund Amendment and Reauthorization Act this product is classified in to the following hazard categories: Fire

This information may be subject to the provisions of the Community Right-to-Know reporting requirements (40CFR 370) If the threshold Quantity criteria are met.

This product does not contain Section 313 reportable ingredients.

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**Disposal considerations**

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Dispose of in accordance with all local, state and federal regulations.

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**Shipping information**

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This material is not regulated as a DOT hazardous material.

Technical shipping name: none

DOT (domestic surface)

Proper shipping name: liquid resin (non-regulated)

Hazard class or division: none

UN/NA number: none

Freight class: 55

Packaging group: none

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**Hazard Rating System**

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	NPCA-HMIS	NFPA 704	Key
Health	1	1	4 = Severe
Flammability	2	2	3 = Serious
Reactivity	1	1	2 = Moderate
			1 = Slight
			0 = minimal

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**Other information**

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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. Because conditions of use of this material are outside our control we make no warranty, expressed or implied, except that it is accurate to the best knowledge of Industrial Polymers, Inc. and we assume no liability in connection with any use of this material. The data on this sheet relates only to the specific material designated herein. Industrial Polymers, Inc. assumes no legal responsibility for use or reliance upon this data. This product is intended for use by persons having technical skills and at their own discretion and risks.

Prepared by: C. Boddie

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