

## Section 1. Chemical Product and Company Identification

<b>Common Name</b>	<b>Wilsonart<sup>(R)</sup> 600 Adhesive</b>	<b>Code</b>	16396USA
<b>Supplier</b>	WILSONART INTERNATIONAL INC. P.O. BOX 6110 - 2400 Wilson Place, Temple, TX 76503 Telephone: 800-433-3222 (USA) or 254-207-7000	<b>MSDS#</b>	16396
		<b>Validation Date</b>	06/05/2000
<b>Synonym</b>	Also known as: Lokweld <sup>(R)</sup> 600	<b>Print Date</b>	06/05/2000
<b>Trade name</b>	Wilsonart <sup>(R)</sup> 600 Adhesive	<b>Responsible Name</b>	Wilsonart International Inc.
<b>Material Uses</b>	Adhesive for laminate.	<b>In Case of Emergency</b> CHEMTREC: 800-424-9300 (USA) 703-527-3887 (International)	
<b>Manufacturer</b>	WILSONART INTERNATIONAL INC. P.O. BOX 6110 - 2400 Wilson Place, Temple, TX 76503 Telephone: 800-433-3222 (USA) or 254-207-7000		

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Toluene	108-88-3	15-40	TWA: 100 ppm STEL: 150 ppm OSHA (PEL) TWA: 50 ppm ACGIH (TLV)
VM & P Naphtha (Stoddard Solvent)	8032-32-4	40-60	Not available.
Methyl ethyl ketone	78-93-3	5-15	TWA: 590 mg/m3 ACGIH

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Liquid.
<b>Emergency Overview</b>	<b>DANGER!</b> FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY BE HARMFUL IF INHALED. HARMFUL OR FATAL IF SWALLOWED. MAY BE HARMFUL BY SKIN CONTACT. May be irritating to eyes, skin, respiratory tract and mucous membranes; possible narcotic / central nervous system effects.
<b>Routes of Entry</b>	Absorbed through skin. Skin contact. Eye contact. Inhalation.
<b>Potential Acute Health Effects</b>	<p><b>Eyes</b> This product may irritate eyes upon contact.</p> <p><b>Skin</b> May cause skin irritation. Permeator (absorbed through the intact skin).</p> <p><b>Inhalation</b> Inhalation of vapors may cause dizziness, light-headedness, nausea, headache, loss of consciousness and death. Material is irritating to mucous membranes and upper respiratory tract. Can be fatal if inhaled or ingested. Narcotic effect; may cause nervous system disturbances. (Central nervous system depression and peripheral neuropathy (numbness in limbs).</p> <p><b>Ingestion</b> Not an expected route of entry. May be fatal if swallowed.</p>
<b>Potential Chronic Health Effects</b>	<b>CARCINOGENIC EFFECTS:</b> None. <b>MUTAGENIC EFFECTS:</b> None. <b>TERATOGENIC EFFECTS:</b> Classified PROVEN for human [Toluene]. The substance is toxic to the blood, the nervous system, the kidneys and liver. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation. <b>TARGET ORGANS:</b> Chronic overexposure may effect the central nervous system, kidneys, and/or liver or cause irregular heartbeat. Peripheral nervous system effects.
<b>Medical Conditions Aggravated by Overexposure:</b>	Persons with preexisting skin disorders may be more susceptible to the effects of solvents.

**Continued on Next Page**

<b>Overexposure /Signs/Symptoms</b>	Skin inflammation is characterized by itching, scaling, reddening. Inflammation of the eye is characterized by redness, watering, and itching.
See Toxicological Information (section 11)	

#### Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
<b>Skin Contact</b>	Wash contaminated skin with soap and water. If the product got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible. Place the victim under a deluge shower. If irritation occurs, seek medical attention. Wash contaminated clothing before reusing.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Oxygen may be administered if breathing is difficult. If irritation (or difficult breathing) persists, seek immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. Seek medical attention.
<b>Notes to Physician</b>	Sudden death due to ventricular fibrillation has been reported from acute inhalation in chronic solvent abusers. Treat patient supportively. Life support measures should be provided because CNS depression, cardiopulmonary failure, and metabolic acidosis have been reported in massive overexposures.

#### Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	Flammable.
<b>Auto-ignition Temperature</b>	The lowest known value is 404°C (759.2°F) (Methyl ethyl ketone).
<b>Flash Points</b>	CLOSED CUP: -6.1°C (21°F). (Setaflash.)
<b>Flammable Limits</b>	LOWER: 2% UPPER: 13%
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames and sparks. Flammable in presence of heat, oxidizing materials.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Static may serve as an ignition source to closed containers.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, insoluble in water. SMALL SPILL: Use DRY chemicals, CO <sub>2</sub> , alcohol foam or water spray. LARGE SPILL: Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Protective Clothing (Fire)</b>	Fire fighting requires the use of a self contained breathing apparatus with a full face piece and pressure-demand or other positive-pressure mode.
<b>Special Remarks on Fire Hazards</b>	Container explosion may occur under fire conditions or when heated.
<b>Special Remarks on Explosion Hazards</b>	All electrical equipment in the area must be rated for flammable liquids. [Dispensing - Class I, Division 1; Storage - Class 1, Division 2] Ground all equipment containing material.

#### Section 6. Accidental Release Measures

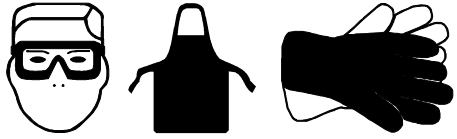
<b>Small Spill and Leak</b>	Absorb with an inert material and place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Flammable liquid, insoluble in water. Eliminate all ignition sources. Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Do not use metal tools or equipment.

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**Section 7. Handling and Storage**

<b>Handling</b>	To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Avoid breathing vapors of this product. After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. When using do not eat, drink or smoke.
<b>Storage</b>	Flammable materials should be stored in a separate safety storage cabinet or room. Store and use away from heat, sparks, open flame, or any other ignition source. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	
<b>Eyes</b>	Splash goggles or safety glasses with side shields.
<b>Body</b>	Synthetic apron.
<b>Respiratory</b>	In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridges with dust/mist pre-filter.
<b>Hands</b>	Gloves (neoprene or rubber).
<b>Feet</b>	No special precautions are necessary if used as intended.
<b>Protective Clothing (Pictograms)</b>	
<b>Personal Protection in Case of a Large Spill</b>	A self contained breathing apparatus should be used to avoid inhalation of the product. Boots. Full suit. Splash goggles. Gloves (neoprene or rubber).

<b>Product Name</b>	<b>Exposure Limits</b>
Toluene	TWA: 100 ppm STEL: 150 ppm OSHA (PEL) TWA: 50 ppm ACGIH (TLV)
VM & P Naphtha (Stoddard Solvent)	Not available.
Methyl ethyl ketone	TWA: 590 mg/m3 ACGIH

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Solvent-like. (Strong.)
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color</b>	Colorless to light yellow.
<b>pH (1% Soln/Water)</b>	Not available.		
<b>Boiling/Condensation Point</b>	78.889°C (174°F)		
<b>Melting/Freezing Point</b>	May start to solidify at 8.63°C (47.5°F) based on data for: Methyl ethyl ketone. Weighted average: -57.47°C (-71.4°F)		
<b>Critical Temperature</b>	The lowest known value is 318.6°C (605.5°F) (Toluene).		
<b>Specific Gravity</b>	0.841 (Water = 1)		

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<b>Vapor Pressure</b>	185 mm of Hg (@ 20°C)
<b>Vapor Density</b>	The highest known value is 3.14 (Air = 1) (Toluene). Weighted average: 2.85 (Air = 1)
<b>Volatility</b>	79%
<b>Odor Threshold</b>	The highest known value is 2.9 ppm (Toluene) Weighted average: 1.95 ppm
<b>Evaporation Rate</b>	2.7 (Methyl ethyl ketone) compared to Ether (anhydrous).
<b>VOC</b>	V.O.C. Content (less water and exempt compounds): 5.62 lbs/gal; 674 g/L (SCAQMD) VHAP CONTENT: 1.93 lbs. VHAP/lbs. solid.
<b>Viscosity</b>	1200 cps (Brookfield Viscometer) 33.0 sec (Stormer Viscometer)
<b>LogK<sub>ow</sub></b>	Not available.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Not available.
<b>Solubility</b>	Insoluble in water.
<b>Physical Chemical Comments</b>	Not available.

### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	No additional information.
<b>Incompatibility with Various Substances</b>	Reactive with acids, alkalis, combustible materials, oxidizing agents, reducing agents.
<b>Hazardous Decomposition Products</b>	Products of Combustion include: carbon oxides (CO, CO <sub>2</sub> )
<b>Hazardous Polymerization</b>	Will not occur.

### Section 11. Toxicological Information

<b>Toxicity to Animals</b>	<b>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</b> Acute oral toxicity (LD50): 2600 mg/kg [Rat]. (Toluene). Acute dermal toxicity (LD50): 6480 mg/kg [Rabbit]. (Methyl ethyl ketone). Acute toxicity of the vapor (LC50): 1400 ppm 4 hour(s) [Rat.]. (VM & P Naphtha (Stoddard Solvent)).
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Not classifiable for human or animal. <b>MUTAGENIC EFFECTS:</b> Classified None for human. <b>TERATOGENIC EFFECTS:</b> Classified PROVEN for human [Toluene]. <b>DEVELOPMENTAL TOXICITY:</b> Classified Development toxin [PROVEN] [Toluene]. Causes damage to the following organs: kidneys, the nervous system, liver, upper respiratory tract. Peripheral neuropathy (numbness in limbs). Can cause CNS depression. N-hexane is a neurotoxin. Toluene has been reported to have caused spontaneous abortion in women that intentionally concentrated and inhaled its vapors.
<b>Other Toxic Effects on Humans</b>	Very hazardous in case of ingestion. Hazardous in case of skin contact [irritant, Permeator (absorbed through the intact skin).], or in case of inhalation.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	No additional information.

Continued on Next Page

**Special Remarks on Other Toxic Effects on Humans** Persons with pre-existing skin disorders may be more susceptible to the effects of solvents.

### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Biodegradable/OECD** Not available.

**Mobility** Not available.

**Toxicity of the Products of Biodegradation** Not available.

**Special Remarks on the Products of Biodegradation** No additional remark.

### Section 13. Disposal Considerations

**Waste Information** Spilled, contaminated, or waste material should be put into a suitable container and handled according to local, state/provincial, and federal regulations. Contact a qualified waste management company in your area for assistance.  
EMPTY CONTAINERS: Empty containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations.  
"Empty" drums should not be given to individuals. Serious accidents have resulted from the misuse of "emptied" containers. Residual vapors may in the container(s) may be explosive. Do not cut, weld, or braze these containers.

**Waste Stream** Not available.

**Consult your local or regional authorities.**

### Section 14. Transport Information

**DOT Classification** DOT CLASS: 3 (Flammable liquid).  
DOT PROPER SHIPPING NAME: Adhesives



Adhesives, 3, UN1133, PG II

**Marine Pollutant** Not a marine pollutant.

**Special Provisions for Transport** 1 Liter or less may use Limited Quantity exceptions (49CFR 173.150)

**ADR/RID Classification** Class 3: Flammable liquid A.


**IMO/IMDG Classification** Class 3.2: Flammable liquid (Intermediate flashpoint group of liquids having a flashpoint of -18°C (0°F) up to, but not including, 23°C (73°F) c.c.).

**ICAO/IATA Classification** Class 3: Flammable liquid.

**Section 15. Regulatory Information**

<b>HCS Classification</b>	HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).
<b>U.S. Federal Regulations</b>	TSCA 8(b) inventory: All ingredients are listed. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Toluene SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: Toluene; Methyl ethyl ketone Clean water act (CWA) 307: Toluene Clean water act (CWA) 311: Toluene Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
<b>International Regulations</b>	
<b>EINECS</b>	VM&P Naphtha (254-192-2) Methyl ethyl ketone (201-159-0) Toluene (203-625-9)
<b>DSCL (EEC)</b>	R11- Highly flammable. R20- Harmful by inhalation. R66 Repeated exposure may cause skin dryness or cracking.
<b>International Lists</b>	Australia: Toluene; Methyl ethyl ketone  China: Toluene  Germany water class: Toluene  VCI WGK: Toluene; Methyl ethyl ketone  Japan (MITI): Methyl ethyl ketone
<b>State Regulations</b>	Connecticut carcinogen reporting list.: Toluene Pennsylvania RTK: Toluene; Methyl ethyl ketone Florida: Toluene; Methyl ethyl ketone Minnesota: Toluene; Methyl ethyl ketone Massachusetts RTK: Toluene; Methyl ethyl ketone New Jersey: Toluene; Methyl ethyl ketone  California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm, which would require a warning under the statute: Toluene

**Section 16. Other Information**

<b>Label Requirements</b>	FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY BE HARMFUL IF INHALED. HARMFUL OR FATAL IF SWALLOWED. MAY BE HARMFUL BY SKIN CONTACT.													
<b>Hazardous Material Information System (U.S.A.)</b>	<table border="1"> <tr> <td>Health</td> <td>*</td> <td>2</td> </tr> <tr> <td>Fire Hazard</td> <td></td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td></td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td></td> <td>C</td> </tr> </table>	Health	*	2	Fire Hazard		3	Reactivity		0	Personal Protection		C	<b>National Fire Protection Association (U.S.A.)</b>  
Health	*	2												
Fire Hazard		3												
Reactivity		0												
Personal Protection		C												

<b>References</b>	-SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -Manufacturer's Material Safety Data Sheet. <b>GLOSSARY:</b> ACGIH - American Conference of Governmental Industrial Hygienists ASTM - American Society for Testing and Materials ADR - Agreement on Dangerous Goods by Road (Europe) BOD5 - Biological Oxygen Demand in 5 days CAS - Chemical Abstract Services CEPA - Canadian Environmental Protection Act
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CERCLA - Comprehensive Environmental Response, Compensation and Liability Act  
 CFR - Code of Federal Regulations  
 DOT - Department of Transportation  
 DSCL - Dangerous Substances Classification and Labeling (Europe)  
 DSL - Domestic Substance List (Canada)  
 EEC/EU - European Economic Community/European Union  
 EINECS - European Inventory of Existing Commercial Chemical Substances  
 HCS - Hazard Communication System  
 HMIS - Hazardous Material Information System  
 IARC - International Agency for Research on Cancer  
 LD50/LC50 - Lethal Dose/Concentration kill 50%  
 LDLo/LCLo - Lowest Published Lethal Dose/Concentration  
 NFPA - National Fire Prevention Association  
 NIOSH - National Institute for Occupational Safety & Health  
 NTP - National Toxicology Program  
 OSHA - Occupational Safety & Health Administration  
 PEL - Permissible Exposure Limit  
 RCRA - Resource Conservation and Recovery Act  
 SARA - Superfund Amendments and Reorganization Act  
 STEL - Short Term Exposure Limit (15 minutes)  
 TDG - Transportation of Dangerous Goods (Canada)  
 TLV-TWA - Threshold Limit Value-Time Weighted Average  
 TSCA - Toxic Substances Control Act  
 WHMIS - Workplace Hazardous Material Information System

**Other Special  
Considerations**

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA Inventory.  
 EINECS: All components of this product are on the European Inventory of Existing Commercial Chemical Substances.

Validated by Wilsonart International Inc. on 06/05/2000.

Verified by Wilsonart International Inc..

Printed 06/05/2000.

**CHEMTREC:**  
 800-424-9300 (USA)  
 703-527-3887 (International)

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*  
*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*