

Section 1. Chemical Product and Company Identification

Common Name	Wilsonart^(R) 600 Adhesive	Code	16396USA
Supplier	WILSONART INTERNATIONAL INC. P.O. BOX 6110 - 2400 Wilson Place, Temple, TX 76503 Telephone: 800-433-3222 (USA) or 254-207-7000	MSDS#	16396
		Revision Date	04/09/02
Synonym	Also known as: Lokweld ^(R) 600	Responsible Name	Wilsonart International Inc.
Trade name	Wilsonart ^(R) 600 Adhesive	In Case of Emergency	CHEMTREC: 800-424-9300 (USA) 703-527-3887 (International)
Material Uses	Adhesive for laminate.		
Manufacturer	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

Physical State and Appearance	Liquid.
Emergency Overview	DANGER! 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.
Routes of Entry	Absorbed through skin. Skin contact. Eye contact. Inhalation.
Potential Acute Health Effects	<p>Eyes This product may irritate eyes upon contact.</p> <p>Skin May cause skin irritation. Permeator (absorbed through the intact skin).</p> <p>Inhalation 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>Ingestion Not an expected route of entry. May be fatal if swallowed.</p>
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: None. MUTAGENIC EFFECTS: None. TERATOGENIC EFFECTS: 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. TARGET ORGANS: Chronic overexposure may effect the central nervous system, kidneys, and/or liver or cause irregular heartbeat. Peripheral nervous system effects.
Medical Conditions Aggravated by Overexposure:	Persons with preexisting skin disorders may be more susceptible to the effects of solvents.

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Overexposure /Signs/Symptoms	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

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin Contact	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.
Inhalation	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.
Ingestion	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.
Notes to Physician	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

Flammability of the Product	Flammable.
Auto-ignition Temperature	The lowest known value is 404°C (759.2°F) (Methyl ethyl ketone).
Flash Points	CLOSED CUP: -6.1°C (21°F). (Setaflash.)
Flammable Limits	LOWER: 2% UPPER: 13%
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks. Flammable in presence of heat, oxidizing materials.
Explosion Hazards in Presence of Various Substances	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.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL SPILL: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE SPILL: Use DRY chemicals, CO ₂ , water spray or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective Clothing (Fire)	Fire fighting requires the use of a self contained breathing apparatus with a full face piece and pressure-demand or other positive-pressure mode.
Special Remarks on Fire Hazards	Container explosion may occur under fire conditions or when heated.
Special Remarks on Explosion Hazards	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

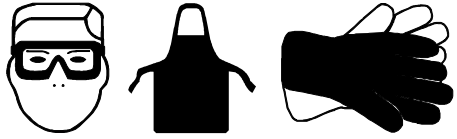
Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Flammable liquid, insoluble in water. Eliminate all ignition sources. Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Absorb 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

Handling	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.
Storage	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

Engineering Controls	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.
Personal Protection	
Eyes	Splash goggles or safety glasses with side shields.
Body	Synthetic apron.
Respiratory	In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridges with dust/mist pre-filter.
Hands	Gloves (neoprene or rubber).
Feet	No special precautions are necessary if used as intended.
Protective Clothing (Pictograms)	
Personal Protection in Case of a Large Spill	A self contained breathing apparatus should be used to avoid inhalation of the product. Boots. Full suit. Splash goggles. Gloves (neoprene or rubber).

Product Name	Exposure Limits
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

Physical State and Appearance	Liquid.	Odor	Solvent-like. (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Colorless to light yellow.
pH (1% Soln/Water)	Not available.		
Boiling/Condensation Point	78.889°C (174°F)		
Melting/Freezing Point	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)		
Critical Temperature	The lowest known value is 318.6°C (605.5°F) (Toluene).		
Specific Gravity	0.841 (Water = 1)		

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Vapor Pressure	185 mm of Hg (@ 20°C)
Vapor Density	The highest known value is 3.14 (Air = 1) (Toluene). Weighted average: 2.85 (Air = 1)
Volatility	79%
Odor Threshold	The highest known value is 2.9 ppm (Toluene) Weighted average: 1.95 ppm
Evaporation Rate	2.7 (Methyl ethyl ketone) compared to Ether (anhydrous).
VOC	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.
Viscosity	1200 cps (Brookfield Viscometer) 33.0 sec (Stormer Viscometer)
LogK_{ow}	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	Not available.
Solubility	Insoluble in water.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. 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)).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not classifiable for human or animal. MUTAGENIC EFFECTS: Classified None for human. TERATOGENIC EFFECTS: Classified PROVEN for human [Toluene]. DEVELOPMENTAL TOXICITY: 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.
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact [irritant, Permeator (absorbed through the intact skin).], or in case of inhalation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional information.

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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



Consumer Commodity, ORM-D (quarts and gallons); Adhesives, 3, UN1133, PG II (containers larger than one gallon)

Marine Pollutant Not a marine pollutant.

Special Provisions for Transport None

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

HCS Classification HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).

U.S. Federal Regulations 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.

International Regulations

EINECS VM&P Naphtha (254-192-2)
 Methy ethyl ketone (201-159-0)
 Toluene (203-625-9)

DSCL (EEC) R11- Highly flammable.
 R20- Harmful by inhalation.
 R66 Repeated exposure may cause skin dryness or cracking.

International Lists Australia: Toluene; Methyl ethyl ketone
 China: Toluene
 Germany water class: Toluene
 VCI WGK: Toluene; Methyl ethyl ketone
 Japan (MITI): Methyl ethyl ketone

State Regulations 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

Label Requirements 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.

Hazardous Material Information System (U.S.A.)

Health	*	2
Fire Hazard		3
Reactivity		0
Personal Protection		C

National Fire Protection Association (U.S.A.)

References -SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984.
 -Manufacturer's Material Safety Data Sheet.

GLOSSARY:

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.

Last revised by Wilsonart International Inc.

04/09/02.

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.