

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Common Name:** Wilsonart® 800 Series Adhesive

**Includes:** 800 Adhesive  
801 Adhesive  
810 Adhesive  
811 Adhesive  
830 Adhesive  
831 Adhesive  
840 Adhesive  
841 Adhesive  
844 Adhesive  
845 Adhesive  
850 Adhesive  
851 Adhesive  
860 Adhesive  
861 Adhesive  
880 Adhesive  
881 Adhesive

**Manufacturer:** WILSONART INTERNATIONAL, INC.  
P. O. BOX 6110 – 2400 WILSON PLACE  
TEMPLE, TX 76503  
**INFORMATION PHONE:** 800-433-3222 (USA)

**Trade Name:** WA 800 Series Adhesive

**Material Uses:** Adhesive for laminate

**Revision #:** 5

**In Case of Emergency Contact CHEMTREC:** 800-424-9300 (USA)  
703-527-3887 (INTERNATIONAL)

## 2 HAZARDS IDENTIFICATION

**Route of Entry:** Skin contact, eye contact, inhalation, ingestion.

**Target Organs:** Central Nervous System (CNS).

**Inhalation:** Breathing vapors may cause irritation to mucous membranes and upper respiratory tract resulting in coughing or shortness of breath. Exposure to high concentrations may result in Central Nervous System (CNS) depression, headache, nausea, blurred vision, and dizziness. May have narcotic effect. Inhalation may cause nervous system disturbances and peripheral neuropathy (numbness in limbs and extremities). Intentional overexposure of concentrated vapors by direct inhalation is extremely hazardous. Overexposure can result in lung damage and choking. Severe over-exposure can result in unconsciousness and death.

**Skin Contact:** May cause skin irritation. May act as a permeator (facilitate absorption through intact skin). May aggravate pre-existing skin conditions. Long-term skin contact may produce defatting of skin resulting in dermatitis.

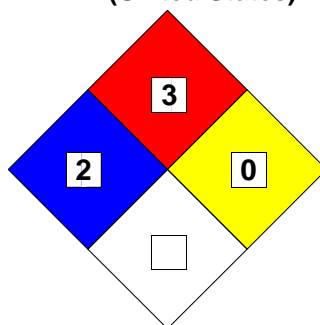
**Eye Contact:** May cause eye irritation. May aggravate pre-existing eye conditions.

**Ingestion:** Not an expected route of entry. Ingestion may cause severe gastro-intestinal disturbance.

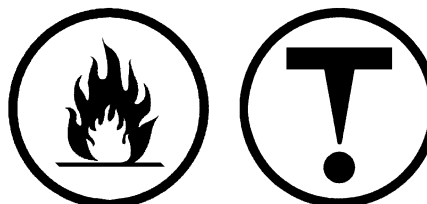
**DANGER!**  
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. USE ONLY WITH ADEQUATE VENTILATION.

HMIS (United States):	
HEALTH	2*
FLAMMABILITY	3
REACTIVITY	0
PPE	C

NFPA (United States):



WHMIS (Canada): B2, D2B



\*See Section 11

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS#	% by Weight
Light Hydrotreated Distillate	68410-97-9	15 – 50
Acetone	67-64-1	20 – 45
Methyl Acetate*	79-20-9	15 – 25
n-Pentane**	109-66-0	< 23
Toluene	108-88-3	1 – 15
Cyclohexane**	110-82-7	< 7.5
n-Hexane**	110-54-3	< 1.5

\* Present in 830 and 831 only.

\*\* Present only in grades 800, 801, 840, 841, 844, 845, 850, 851, 860, 861, 880, and 881.

### 4 FIRST AID MEASURES

**Inhalation:** Remove patient to fresh air. If patient is having difficulty breathing, seek immediate medical attention. If not breathing, clear airway and start mouth-to-mouth artificial respiration (or use bag-mask respirator). Seek immediate medical attention.

**Skin Contact:** Wash affected areas with soap and water. If irritation develops, seek medical attention. If product is absorbed into clothing, remove clothing as soon as possible. Launder clothing before reusing.

**Eye Contact:** Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek medical attention.

**Ingestion:** Give patient 3 – 4 glasses of water. DO NOT induce vomiting. Seek immediate medical attention. DO NOT give anything by mouth to an unconscious person. Ingestion may cause irritation to the gastro-intestinal tract.

**Additional Information:** Sudden death due to ventricular fibrillation has been reported from acute inhalation in chronic solvent abusers. Life support should be provided due to CNS depression, cardiopulmonary failure, and metabolic acidosis in massive overexposure.

## 5 FIRE FIGHTING MEASURES

**Flash Point:** 800 & 801: 17°F(-8°C)      810 & 811: -6°F(-21°C)      830 & 831: -7°F(-22°C)  
840 & 841: -24°F(-31°C)      844 & 845: -30°F(-34°C)      850 & 851: 5°F(-15°C)  
860 & 861: 16°F(-9°C)      880 & 881: 21°F(-6°C)

**Flash Point Method:** Closed Cup

**Autoignition Temp.:** 437°F (225°C) value for the lowest known component – Light Hydrotreated Distillate

**Burning Rate:** Not Available

**LEL:** 1.2% (value for the lowest known component – Toluene)

**UEL:** 16.0% (value for the highest known component – Methyl Acetate)

**Flammability Classification:** Flammable liquid

**Firefighting Equipment:** Use self-contained breathing apparatus with a full-face piece and pressure demand or other positive-pressure mode.

**Risk of explosion due to mechanical impact:** Not Available.

**Risk of explosion due to static discharge:** Static discharge may serve as an ignition source for this product.

**Hazardous Products of Combustion:** Carbon Oxides (CO and CO<sub>2</sub>) and various Hydrocarbons.

**Special remarks:** Extremely flammable liquid and vapor. Vapor may cause flash fires. Vapors are heavier than air and can travel long distances to ignition sources. For small or incipient fire, use dry chemical, CO<sub>2</sub>, or alcohol foam. For large fire, use alcohol foam, water spray or fog. Cool containing vessels with water jet to prevent pressure build-up, autoignition, or explosion. All electrical equipment in area must be rated for flammable liquids. Bond and ground all containers when dispensing.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate PPE. Extremely flammable. Remove all sources of ignition. Make sure area is well ventilated. Spilled adhesive may be slippery.

**Environmental Precautions:** Keep out of sewers and drains.

**Small Spill or Leak:** Absorb spilled product with vermiculite, dry sand, or earth. Place in a suitable non-leaking container and tightly seal for disposal.

**Large Spill or Leak:** Dike and contain spill. Absorb spilled product with vermiculite, dry sand, or earth. Place in a suitable non-leaking container and tightly seal for disposal.

## 7 HANDLING AND STORAGE

**Handling Precautions:** Wear appropriate PPE. Keep away from heat, sparks, and flames. If used indoors, make sure to provide adequate ventilation to prevent vapor build-up. Bond and ground all containers when dispensing. All electrical equipment in area must be rated for flammable liquids.

**Storage Requirements:** Flammable material should be stored away from other materials in a storage cabinet or room. Store in a cool, dry, well-ventilated area. Ensure product is kept away from all sources of heat and sparks. Keep container tightly closed when not in use. Prohibit smoking in the storage area. Do not store with acids or oxidizers.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limit value. Ensure that a working eyewash and safety shower are in the work area.

**Protective Equipment:** Wear splash goggles or safety glasses with side shields, synthetic apron, and neoprene or rubber gloves. In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

**Exposure Guidelines / Other:**

Product Name	Exposure Limits
Acetone	OSHA PEL: TWA 1000 ppm ACGIH TLV: TWA 500 ppm STEL 750 ppm
Cyclohexane	OSHA PEL: TWA 300 ppm ACGIH TLV: TWA 100 ppm
n-Hexane	OSHA PEL: TWA 500 ppm ACGIH TLV: TWA 50 ppm
Methyl Acetate	OSHA PEL: TWA 200 ppm ACGIH TLV: TWA 200 ppm STEL 250 ppm
n-Pentane	OSHA PEL: TWA 1000 ppm ACGIH TLV: TWA 600 ppm
Toluene	OSHA PEL: TWA 200 ppm CL 300 ppm 500 ppm (10 min. max. peak) ACGIH TLV: TWA 20 ppm

Consult local authorities and local regulations for exposure limits.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Red Liquid - 800, 810, 830, 840, 844, 850, 860, & 880 Yellow Brown Liquid – 801, 811, 831, 841, 845, 851, 861, & 881	
<b>Physical State:</b>	Liquid	<b>Boiling Point:</b> 132°F (56°C)
<b>Odor:</b>	Strong solvent	<b>Freezing / Melting point:</b> Not Applicable
<b>pH:</b>	Not Applicable	<b>Solubility:</b> Not Soluble in Water
<b>Vapor Pressure:</b>	185 mm Hg (@ 20°C)	<b>Viscosity:</b> 200 – 550 cps
<b>Specific Gravity / Density:</b>	6.6 lbs./gal – 800, 801, 840, 841, 844, 845, 850, 851, 860, 861 6.8 lbs./gal – 810, 811 6.9 lbs./gal – 880, 881 7.4 lbs./gal – 830, 831	
<b>Vapor Density:</b>	Highest component value is 3.14 for Toluene (air = 1) Weighted Average is 2.65 (air = 1)	
<b>Evaporation Rate:</b>	Highest component value is 7.7 for Acetone Weighted Average is 6.1 compared to Butyl Acetate	
<b>VOC:</b>	800, 801 – 596 g/L	<b>Percent Volatile:</b> 800, 801 – 81%.
	810, 811 – 534 g/L	810, 811 – 79%.
	830, 831 – 395 g/L	830, 831 – 71%.
	840, 841 – 577 g/L	840, 841 – 81%.
	844, 845 – 575 g/L	844, 845 – 81%.
	850, 851 – 602 g/L	850, 851 – 82%.
	860, 861 – 603 g/L	860, 861 – 82%.
	880, 881 – 538 g/L	880, 881 – 75%.

**10 STABILITY AND REACTIVITY**

**Stability:** Product is stable as supplied.

**Conditions to Avoid:** All ignition sources and elevated temperatures.

**Materials to Avoid (incompatibility):** Copper and copper alloys, strong acids, alkalies, reducing agents, and oxidizers.

**Hazardous Decomposition Products:** Carbon Oxides (CO and CO<sub>2</sub>) and various Hydrocarbons.

**Hazardous Polymerization:** Will not polymerize.

## 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity to Animals:**

Acetone:	Inhalation 4 hour LC50 = 30000 ppm (rat). Inhalation 4 hour LC50 = 18600 ppm (mouse). Oral LD50 = 5800 mg/kg (rat). Dermal LD50 > 16000 mg/kg (rabbit).
Cyclohexane:	Oral LD50 = 12850 mg/kg (rat). Dermal LD50 > 18000 mg/kg (rabbit).
n-Hexane:	Inhalation 4 hour LC50 = 38500 ppm (rat) Oral LD50 = 28700 mg/kg (rat)
Methyl Acetate	Inhalation 4 hour LC50 = 16000 – 32000 ppm (rat) Inhalation 4 hour LCLO = 11300 ppm (mouse) Oral LD50 = 3700 mg/kg (rabbit) Dermal LD50 > 5000 mg/kg (rabbit)
n-Pentane:	Inhalation 4 hour LC50 > 6106 ppm (rat) Oral LD50 > 2000 mg/kg (rat)
Toluene:	Inhalation 4 hour LC50 = 7585 ppm (rat) Inhalation 4 hour LC50 = 7100 ppm (mouse) Oral LD50 = 5580 mg/kg (male rat) Dermal LD50 = 12125 mg/kg (rabbit)

**Chronic Toxicity to Animals:** No additional information.

**Acute Toxicity to Humans:** No additional information.

**Chronic Effects on Humans:** Classified PROVEN for human (n-Hexane). n-Hexane has been shown to cause neuropathy (numbness of arms and legs) in long-term exposures.

**Carcinogenic Effects:** Not classifiable for humans or animals.

**Mutagenic Effects:** Classified NONE for human.

**Teratogenic Effects:** Classified PROVEN for human (Toluene).

**Developmental Toxicity:** Classified PROVEN for human (Toluene). Causes damage to kidneys, liver, and central nervous system. Has been reported to cause spontaneous abortion in women that intentionally concentrated and inhaled vapors.

## 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** Product may kill grasses and small plants. Non-toxic to fish. Moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress to birds and mammals by ingestion.

**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:** Not Available.

## 13 DISPOSAL CONSIDERATIONS

Spilled, contaminated, or waste material should be put into a suitable container and handled according to Federal, State, and local regulations. Contact a qualified waste management company for assistance. Do not incinerate, weld, cut, or braze container. Residual vapors may be explosive. Empty containers should be disposed of properly.

Dispose of in accordance with Federal, State, and local regulations.

## 14 TRANSPORT INFORMATION

**Proper Shipping Name:** Adhesives (DOT), Flammable Liquid.

**DOT Classification:** Adhesives, Flammable Liquid, Hazard Class 3, UN 1133, Packing Group II, Limited Quantity 1L.

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

**ADR/RID Classification:** Class 3; Flammable Liquid.

**ICAO/IATA Classification:** Class 3; Flammable Liquid.

**IMO/IMDG Classification:** Class 3; Flammable Liquid.

**Marine Pollutant:** No.

## 15 REGULATORY INFORMATION

### U.S. Federal Regulations

Chemical (& CAS Number)	SARA 302 (EHS)TPQ	SARA 304 (EHS)Rq	SARA 313 <i>de minimis</i>	CERCLA Rq	CAA 112(r) TQ	RCRA Code
Acetone (67-64-1)				5000		U002
Cyclohexane (110-82-7)			1	1000		U056
n-Hexane (110-54-3)			1	5000		
n-Pentane (109-66-0)					10000	
Toluene (108-88-3)			1	1000		U220

All quantities in pounds

### State Regulations

Chemical (& CAS Number)	CA Prop 65	MA RTK	MN RTK	NJ RTK	PA RTK	RI RTK
Acetone (67-64-1)		X	X	X	X	X
Cyclohexane (110-82-7)		X	X	X	X	X
n-Hexane (110-54-3)		X	X	X	X	X
Methyl Acetate (79-20-9)		X	X	X	X	X
n-Pentane (109-66-0)		X	X	X	X	X
Toluene (108-88-3)	X	X	X	X	X	X

### International Regulations

**DSL (Canada):** The chemicals in this product are listed.

**EINECS:** The chemicals in this product are listed.

**WHIMS:** B2 & D2B.

## 16 OTHER INFORMATION

### References

Lewis, R. J., Rapid Guide to Hazardous Chemicals in the Workplace, 4<sup>th</sup> ed., Wiley-Interscience, New York, 2000.

NIOSH Pocket Guide to Chemical Hazards, Department of Health and Human Services, National Institute for Occupational Safety and Health, 2004.

Patty's Toxicology, 5<sup>th</sup> ed. John Wiley & Sons, Inc. 2001.

TLVs and BEIs, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Agents, ACGIH Worldwide, Cincinnati, 2007.

### 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

CAA – Clean Air Act

CAS – Chemical Abstracts Services

# MSDS **Material Safety Data Sheet**

**Wilsonart International**



MSDS Number: 19204

Wilsonart® 800 Series Adhesive

Revision Date: 01/15/09

Page 7 of 7

CEPA – Canadian Environmental Protection Act  
CERCLA – Comprehensive Environmental Response, Compensations, and Liability Act  
CFR – Code of Federal Regulations  
CL – Ceiling  
CWA – Clean Water Act  
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

**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 manufacturer nor any of its subsidiaries assumes any liability whatsoever for 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.*

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END OF MSDS DOCUMENT