MSDS Material Safety Data Sheet

Ralph Wilson Plastics Company

1 PRODUCT AND COMPANY IDENTIFICATION

Common Name: **Lokweld® 700A Adhesive**

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

Trade Name: **LW 700A Adhesive**

Material Uses: **Adhesive for laminate**

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

2 HAZARDS IDENTIFICATION

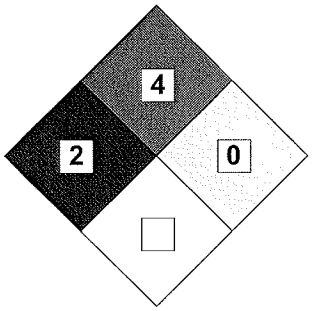
Route of Entry: Skin, eyes, respiratory tract.
Target Organs: Lung, liver, kidney, central nervous system (CNS), and peripheral nervous system.
Inhalation: Breathing vapors may cause irritation to the respiratory tract and Central Nervous System (CNS) depression with headache, nausea, and dizziness. Intentional overexposure of concentrated vapors by direct inhalation is extremely hazardous.
Skin Contact: May cause frostbite. May cause skin irritation. May aggravate pre-existing skin conditions.
Eye Contact: Will cause eye irritation.
Ingestion: Not an expected route of entry. If ingested it may cause irritation to the gastro-intestinal tract.

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	4
REACTIVITY	0
PPE	C

*See Section 11

NFPA (United States):



WHMIS (Canada): A, B1, D2B

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS#	% by Weight
Acetone	67-64-1	10 – 30
Dimethyl Ether	115-10-6	10 – 30
Propane	74-98-6	10 – 30
Pentane	109-66-0	7 – 13
Light Hydrotreated Distillate	68410-97-9	5 – 10
Toluene	108-88-3	5 – 10
Cyclohexane	110-82-7	< 1.5

n-Hexane	110-54-3	< 0.3

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.
Eye Contact: Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek medical attention.
Ingestion: DO NOT induce vomiting. Seek immediate medical attention. DO NOT give anything by mouth to an unconscious person.

5 FIRE FIGHTING MEASURES

Flash Point: -156°F (-104°C) estimated
Flash Point Method: Open Cup
Autoignition Temp.: 473°F (245°C) (Cyclohexane)
Burning Rate: Not Available
LEL: 2.3% (Propane)
UEL: 9.5% (Propane)
Flammability Classification: Flammable Gas
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_2) 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. Aerosol containers can explode in a fire. In case of fire, use dry chemicals, CO_2, or alcohol foam. Avoid water. 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.

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.
Clean-Up Methods: 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.
Storage Requirements: Store in a cool, (below 120°F or 49°C) dry, well-ventilated area. Ensure product is kept away from all sources of heat and sparks. 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 (CAS 67-64-1):	OSHA PEL:	TWA 1000 ppm		
	ACGIH TLV:	TWA 500 ppm	STEL 750 ppm	
Cyclohexane (CAS 110-82-7):	OSHA PEL:	TWA 300 ppm		
	ACGIH TLV:	TWA 100 ppm		
n-Hexane (CAS 110-54-3):	OSHA PEL:	TWA 500 ppm		
	ACGIH TLV:	TWA 50 ppm		
Pentane (CAS 109-66-0):	OSHA PEL:	TWA 1000 ppm		
	ACGIH TLV:	TWA 600 ppm		
Propane (CAS 74-98-6):	OSHA PEL:	TWA 1000 ppm		
	ACGIH TLV:	TWA 1000 ppm		
Toluene (CAS 108-88-3):	OSHA PEL:	TWA 200 ppm	CL 300 ppm	500 ppm (10 minute max peak)
	ACGIH TLV:	TWA 20 ppm		

Consult local authorities and local regulations for exposure limits.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid adhesive in pressurized container.
Physical State: Liquid
Boiling Point: Not Available
Freezing / Melting Point: Not Applicable
Odor: Strong solvent
pH: Not Applicable
Solubility: Not Soluble in Water
Specific Gravity / Density: Not Available
Vapor Pressure: Not Available
Vapor Density: Greater than air

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, and oxidizers.
Hazardous Decomposition Products: Carbon Oxides (CO and CO_2) and various Hydrocarbons.
Hazardous Polymerization: Will not polymerize.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity to Animals:

Acetone (CAS 67-64-1):	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 (CAS 110-82-7):	Oral LD50 = 12850 mg/kg (rat).
	Dermal LD50 > 18000 mg/kg (rabbit).
Dimethyl Ether (CAS 115-10-6):	Inhalation 4 hour LC50 > 164000 ppm (rat).
	Inhalation 4 hour LC50 > 134350 ppm (mouse).
n-Hexane (CAS 110-54-3):	Inhalation 4 hour LC50 = 38500 ppm (rat)
	Oral LD50 = 28700 mg/kg (rat)
Pentane CAS 109-66-0):	Inhalation 4 hour LC50 > 6106 ppm (rat)
	Oral LD50 > 2000 mg/kg (rat)
Propane (CAS 74-98-6):	Inhalation 15 minute LC50 > 800000 ppm (rat).
Toluene (CAS 108-88-3):	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: No additional information.
Carcinogenic Effects: No additional information.
Mutagenic Effects: No additional information.
Teratogenic Effects: Classified PROVEN for human (Toluene).
Developmental Toxicity: Classified PROVEN for human (Toluene).

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.
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. Contents are under pressure. Do not puncture or incinerate container.
Dispose of in accordance with Federal, State, and local regulations.

14 TRANSPORT INFORMATION

Proper Shipping Name: Aerosols, Flammable.
DOT Classification: UN 1950, Aerosols, 2.1, Limited Quantity.
Special Provision for Transport: Limited Quantity.
IMO/IMDG Classification: UN 1950, Aerosols, 2.1, Limited Quantity.
Marine Pollutant: Not a marine pollutant.

15 REGULATORY INFORMATION

U.S. Federal Regulations

Chemical (& CAS Number)	SARA 302 (EHS)TPQ	SARA 304 (EHS)Rq	SARA 313 *de minimis*	CERCLA Rq	CAA 112(r) TQ	RCRA Code
Acetone (67-64-1)				5000		U002
Cyclohexane (110-82-7)			1	1000		U056
Dimethyl Ether (115-10-6)					10000	
n-Hexane (110-54-3)			1	5000		
Pentane (109-66-0)					10000	
Propane (74-98-6)					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
Dimethyl Ether (115-10-6)		X	X	X	X	X
n-Hexane (110-54-3)		X	X	X	X	X
Pentane (109-66-0)		X	X	X	X	X
Propane (74-98-6)		X	X	X	X	X
Toluene (108-88-3)*	X	X	X	X	X	X

***WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

International Regulations

DSL (Canada): The chemicals in this product are listed.
EINECS: The chemicals in this product are listed.
WHMIS: A, B1, & D2B.

16 OTHER INFORMATION

Prepared By: Environmental, Health, and Safety Department, Wilsonart LLC.
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Notice to Reader

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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.

END OF MSDS DOCUMENT