

MSDS **Material Safety Data Sheet**

Wilsonart International



MSDS Number: 19866
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Wilsonart®/Lokweld® 740/741 Adhesive

Revision Date: 01/22/10
Revision No: 1

1 PRODUCT AND COMPANY IDENTIFICATION

Common Name: Wilsonart®/Lokweld® 740/741 Adhesive

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

Trade Name: WA/LW 740/741 Adhesive

Material Uses: Canisterized contact adhesive

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.

Skin Contact: May cause skin irritation. May aggravate pre-existing skin conditions.

Eye Contact: Will cause eye irritation.

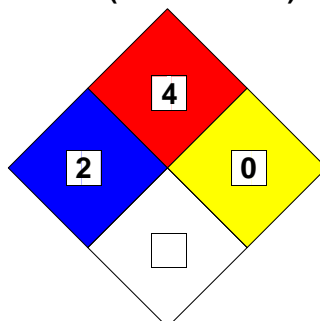
Ingestion: Not an expected route of entry. If ingested it may cause irritation to the gastro-intestinal tract.
Aspiration hazard.

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 |

NFPA (United States):



WHMIS (Canada): A, B1, D2B



3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS# | % by Weight |
|-------------------------------|------------|-------------|
| Acetone | 67-64-1 | 20 – 30 |
| Dimethyl Ether | 115-10-6 | 10 – 20 |
| Propane | 74-98-6 | 5 – 20 |
| Isobutane | 75-28-5 | 5 – 20 |
| Pentane | 109-66-0 | < 15 |
| Light Hydrotreated Distillate | 68410-97-9 | 3 – 13 |
| Toluene | 108-88-3 | 1 – 10 |

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| | | |
|-------------|----------|-------|
| Cyclohexane | 110-82-7 | < 2 |
| n-Hexane | 110-54-3 | < 0.4 |

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:** 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.

5 FIRE FIGHTING MEASURES

- Flash Point:** -156°F (-104°C) Approximate – from propellant component
- Flash Point Method:** Open Cup
- Autoignition Temp.:** 437°F (225°C) (n-Hexane)
- Burning Rate:** Not Available
- LEL:** 1.1% (n-Hexane & Toluene)
- UEL:** 27.0% (Dimethyl Ether)
- Flammability Classification:** Not Classified
- 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. In case of fire, use dry chemicals, CO₂, or alcohol foam. Avoid water. Cool containing vessels with water jet to prevent pressure build-up, autoignition, or explosion.
- Firefighting Equipment:** Use self-contained breathing apparatus with a full-face piece and pressure demand or other positive-pressure mode.
- 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. Flammable in the presence of heat and/or oxidizing materials. Container explosion may occur in fire conditions or when heated. All electrical equipment in the area must be rated for flammable liquids.
- Hazardous Products of Combustion:** Carbon Oxides (CO and CO₂) and various Hydrocarbons.

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.

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 |
| Isobutane (CAS 75-28-5) | ACGIH TLV: TWA 1000 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 ACGIH TLV: TWA 20 ppm CL 300 ppm |

Consult local authorities and local regulations for exposure limits.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------|---|------------------------------------|----------------------|
| Appearance: | Liquid adhesive in pressurized canister | Boiling Point: | Not Available |
| Physical State: | Liquid | Freezing / Melting point: | Not Available |
| Odor: | Strong solvent | Solubility: | Not Soluble in Water |
| pH: | Not Applicable | Specific Gravity / Density: | 0.67 – 0.71 |
| Vapor Pressure: | Not Available | Viscosity: | Not Available |
| Vapor Density: | Greater than air | | |
| VOC: | 489 g/L | | |

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, and alkalis.

Hazardous Decomposition Products: Carbon oxides (CO and CO₂) and various hydrocarbons.

Hazardous Polymerization: Will not polymerize.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity to Animals:

| | |
|-----------------|--|
| Acetone: | LD50 = 6700 mg/kg (oral, rat) LD50 > 16000 mg/kg (dermal, rabbit) LC50 = 30000 ppm (4 hour, rat) |
| Cyclohexane: | LD50 = 12850 mg/kg (oral, rat) LD50 > 18000 mg/kg (dermal, rabbit) |
| Dimethyl Ether: | LC50 = 164000 ppm (4 hour, rat) |

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n-Hexane: LD50 = 28700 mg/kg (oral, rat)
LC50 = 38500 ppm (4 hour, rat)
Isobutane: LC50 = 368000 ppm (4 hour, mouse)
n-Pentane: LD50 > 2000 mg/kg (oral, rat)
LC50 > 6106 ppm (4 hour, rat)
Toluene: LD50 = 2600 mg/kg (oral, rat)
LD50 = 12210 mg/kg (dermal, rabbit)
LC50 = 7585 ppm (4 hour, rat).

Chronic Toxicity to Animals: Acetone, 4 month exposure resulted in 23% drop in weight gain (rat). Has been reported to cause adverse effects in the hematological system, liver, kidney, and testis. This product contains trace amounts of talc. Rats exposed to high concentrations of talc fine particles for a lifetime developed lung inflammation, fibrosis, and lung tumors. Relevance to humans is uncertain.

Acute Toxicity to Humans: No additional information.

Chronic Effects on Humans: No additional information.

Carcinogenic Effects: Not classifiable for human or animal.

Mutagenic Effects: Classifiable none or human.

Teratogenic Effects: Classified PROVEN for human (Toluene).

Developmental Toxicity: Classified PROVEN developmental toxin (Toluene).

Causes damage to the following organs: Kidney, liver, and central nervous system (CNS). n-Hexane is a neurotoxin. Toluene has been reported to have caused spontaneous abortion in women that intentionally concentrated and inhaled the product vapors. Can cause CNS depression and peripheral neuropathy (numbness in limbs).

12 **ECOLOGICAL INFORMATION**

Ecotoxicity: This 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 through 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. Empty containers larger than 30 lb. capacity should be returned for reconditioning and recycling according to the manufacturer's instructions. Empty containers of 30 lb. or less in capacity should be safely disposed of according to Federal, State, and local regulations. "Empty" containers should not be given to individuals. Serious accidents have resulted from the misuse of "empty" containers. Residual vapors in the container may be explosive. Do not cut, weld, braze, or grind on an "empty" container.

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

14 **TRANSPORT INFORMATION**

SHIP DOMESTIC GROUND ONLY

DO NOT SHIP BY AIR

Proper Shipping Name: Liquefied gas, flammable, n.o.s

Hazard Class: 2.1

Identification Number: UN 3161

Label Code: 2.1

Marine Pollutant: Not expected to be a marine pollutant.

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15 REGULATORY INFORMATION

U.S. Federal Regulations

OSHA (29 CFR 1910.1200): Hazardous

| 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) | | | 1.0 | 1000 | | U056 |
| n-Hexane (110-54-3) | | | 1.0 | 5000 | | |
| Isobutane (75-28-5) | | | | | 10000 | |
| Pentane (109-66-0) | | | | | 10000 | |
| Propane (74-98-6) | | | | | 10000 | |
| Toluene (108-88-3) | | | 1.0 | 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 |
| Dimethyl Ether (115-10-6) | | X | X | X | X | X |
| Cyclohexane (110-82-7) | | X | X | X | X | X |
| n-Hexane (110-54-3) | | X | X | X | X | X |
| Isobutane (75-28-5) | | 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 |
| Benzene (71-43-2)* | X | X | | | | |

* in trace amounts

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

References

Lewis, R. J., *Rapid Guide to Hazardous Chemicals in the Workplace*, 4th 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, 5th 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

CEPA – Canadian Environmental Protection Act

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CERCLA – Comprehensive Environmental Response, Compensations, and Liability Act
CFR – Code of Federal Regulations
CWA – Clean Water Act
DOT – Department of Transportation
DSCCL – 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

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.

END OF MSDS DOCUMENT