

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Klean Strip Lacquer Thinner	
Company Name:	W. M. Barr 2105 Channel Avenue Memphis, TN 38113	Phone Number: (901)775-0100
Web site address:	www.wmbarr.com	
Emergency Contact:	3E 24 Hour Emergency Contact	(800)451-8346
Information:	W.M. Barr Customer Service	(800)398-3892
Intended Use:	Paint, stain, and varnish thinning.	
Product Code:	GML170, QML170, CML170, DML170, GML170P, QML170W, GML170W, GML170HDWS	

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 2
Acute Toxicity: Inhalation, Category 3
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 3
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Toxic To Reproduction, Category 2
Specific Target Organ Toxicity (single exposure), Category 1
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases: Highly flammable liquid and vapor.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Toxic in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Toxic if inhaled.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure.

GHS Precautionary Phrases: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021

Supersedes Revision: 02/08/2021

GHS Response Phrases:

Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
Keep cool.

IF SWALLOWED: Immediately Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed: Call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.
Specific treatment see the label.
Rinse mouth.
Do NOT induce vomiting.
If skin irritation occurs, get medical advice/attention.
If eye irritation persists, get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire, use proper extinguishing material to extinguish.

GHS Storage and Disposal Phrases:

Store container tightly closed in well-ventilated place.
Store locked up.
Dispose of contents/container according to local, state and federal regulations.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation Acute Exposure Effects:
Vapor harmful. May cause dizziness; headache; watering of eyes; irritation of respiratory tract; weakness; drowsiness; nausea; numbness in fingers, arms and legs; depression of central nervous system; loss of appetite; fatigue; hallucinations; light headedness; visual disturbances; giddiness and intoxication; sleepiness; cough and dyspnea; cold, clammy extremities; diarrhea; vomiting; dilation of pupils; spotted vision. Severe overexposure may cause convulsions; unconsciousness; coma; and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal.

Skin Contact Acute Exposure Effects:

May be absorbed through the skin. May cause irritation; numbness in the fingers and arms; drying of skin; and dermatitis. May cause increased severity of symptoms listed under inhalation.

Eye Contact Acute Exposure Effects:

This material is an eye irritant. May cause irritation; burns; conjunctivitis of eyes; and corneal ulcerations of the eye. Vapors may irritate eyes.

Ingestion Acute Exposure Effects:

Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May cause dizziness; headache; nausea; vomiting; burning sensation in mouth, throat, and stomach; loss of coordination; depression of the central nervous system; narcosis; stupor; gastrointestinal irritation; liver, kidney, and heart damage; diarrhea; loss of appetite; coma and death. May produce symptoms listed under inhalation.

Chronic Exposure Effects:

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021

Supersedes Revision: 02/08/2021

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause conjunctivitis; gastric disturbances; insomnia; dizziness; headache; weakness; fatigue; nausea; heart palpitations; skin irritation; numbness in hands and feet; permanent central nervous system changes; some loss of memory; pancreatic damage; giddiness; visual impairment or blindness; kidney or liver damage; and death. May cause symptoms listed under inhalation.

Target Organs: Central Nervous System, Liver, Kidney, Heart, Stomach, Respiratory System

Primary Routes of Entry: Inhalation, Ingestion, Skin Absorption

Medical Conditions Generally Aggravated By Exposure: Diseases of the skin, eyes, liver, kidneys, central nervous system and respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	15.0 -40.0 %
141-78-6	Acetic acid, ethyl ester {Ethyl acetate}	15.0 -40.0 %
64742-47-8	Hydrotreated light distillate (petroleum, mineral spirits)	10.0 -30.0 %
108-88-3	Toluene {Benzene, Methyl-; Toluol}	10.0 -30.0 %
67-64-1	Acetone {2-Propanone}	1.0 -5.0 %
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	1.0 -5.0 %
64741-85-1	Raffinates (petroleum), sorption process	1.0 -5.0 %

Additional Chemical Information Specific percentage of composition is being withheld as a trade secret.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

In Case of Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

In Case of Skin Contact:	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
In Case of Eye Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In Case of Ingestion:	If swallowed, do NOT induce vomiting. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.
Signs and Symptoms Of Exposure:	See Potential Health Effects.
Note to Physician:	Poison. This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Call your local poison control center for further information.

5. FIRE FIGHTING MEASURES

	NFPA Class IB
Flash Pt:	18.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
Explosive Limits:	LEL: N.D. UEL: N.D.
Autoignition Pt:	N.D.
Suitable Extinguishing Media:	Use carbon dioxide, dry powder, or foam.
Unsuitable Extinguishing Media:	Do not use a solid water stream, as this may spread the fire.
Fire Fighting Instructions:	Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:	Vapors may cause flash fire or ignite explosively. Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc. Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. Large spills: Dike far ahead of spill for later disposal. Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.
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7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.
 Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty.
 Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing: Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm	
		OSHA PELs	PEL: 200 ppm	
141-78-6	Acetic acid, ethyl ester {Ethyl acetate}	ACGIH TLV	TLV: 400 ppm	
		OSHA PELs	PEL: 400 ppm	
64742-47-8	Hydrotreated light distillate (petroleum, mineral spirits)	ACGIH TLV	TLV: 200 mg/m3	
108-88-3	Toluene {Benzene, Methyl-; Toluol}	ACGIH TLV	TLV: 50 ppm	
		OSHA PELs	PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	
67-64-1	Acetone {2-Propanone}	ACGIH TLV	TLV: 500 ppm STEL: 750 ppm	
		OSHA PELs	PEL: 1000 ppm	
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	ACGIH TLV	TLV: 20 ppm	
		OSHA PELs	PEL: 50 ppm	

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021

Supersedes Revision: 02/08/2021

Respiratory Equipment (Specify Type):	For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.
Eye Protection:	Protect eyes with chemical splash goggles.
Protective Gloves:	Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.
Other Protective Clothing:	Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.
Engineering Controls (Ventilation etc.):	Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - Stop - ventilation is inadequate. Leave area immediately. Do not use in small enclosed spaces, such as basements and bathrooms.
Work/Hygienic/Maintenance Practices:	A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear colorless liquid with solvent odor. Odor threshold not determined.
pH:	N.D.
Melting Point:	NE - N.D.
Boiling Point:	> 99.90 F
Flash Pt:	18.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
Evaporation Rate:	> 1 (BuAC=1)
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: N.D. UEL: N.D.
Vapor Pressure (vs. Air or mm Hg):	N.D.
Vapor Density (vs. Air = 1):	N.D.
Specific Gravity (Water = 1):	0.8063 - 0.8263
Density:	6.71 - 6.87 LB/GL
Bulk density:	NE
Solubility in Water:	Appreciable

SAFETY DATA SHEET
Klean Strip Lacquer Thinner

Octanol/Water Partition Coefficient:	ND
Percent Volatile:	100.0 % by weight.
VOC / Volume:	805.2800 G/L
Autoignition Pt:	N.D.
Decomposition Temperature:	No data. - N.D.
Viscosity:	> 2 CPS
Particle Size:	NE
Heat Value:	NE
Corrosion Rate:	N.D.
Additional Physical Information	ND = Not Determined. NE = Not Established

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	No data available.
Incompatibility - Materials To Avoid:	Incompatible with strong oxidizing agents, strong caustics, hydrogen peroxide, and nitrates.
Hazardous Decomposition or Byproducts:	Decomposition may produce carbon monoxide; carbon dioxide
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	<p>This product has not been tested as a whole. Information below will be for individual ingredients. Refer to section 2 for acute and chronic effects.</p> <p>CAS# 141-78-6: Standard Draize Test, Eyes, Human, 400.0 PPM. Result: Liver: Hepatitis (hepatocellular necrosis), zonal. - Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943</p> <p>CAS# 108-88-3: Reproductive Effects:, TClO, Inhalation, Rat, 800.0 MG/M3, 6 H, female 14-20 day(s) after conception. Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Newborn: Behavioral. - Brazilian Journal of Medical and Biological Research., Vol/p/yr: 23,533, 1990</p> <p>Standard Draize Test, Eyes, Species: Rabbit, 2.000 MG, 24 H, Severe. Result: Effects on Embryo or Fetus: Other effects to embryo. Specific Developmental Abnormalities: Eye, ear. - Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague</p>
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SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021
Supersedes Revision: 02/08/2021

Czechoslovakia, Vol/p/yr: -,29, 1986

CAS# 67-64-1:

Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.

Result:

Behavioral: Change in motor activity (specific assay).

Behavioral: Alteration of classical conditioning.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave.,
Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

CAS# 111-76-2:

Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.

Result:

Behavioral: Ataxia.

Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN
55802, Vol/p/yr: 68,405, 1983

Acute toxicity, LD50, Skin, Species: Rabbit, 220.0 MG/KG.

Result:

Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord).

Effects on Embryo or Fetus: Other effects to embryo.

Specific Developmental Abnormalities: Musculoskeletal system.

- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment
Research, Toxicology Research Lab, Midland, MI 48640, Vol/p/yr: MSD-46,

Acute toxicity, LD50, Oral, Rat, 250.0 mg/kg.

Result:

Lungs, Thorax, or Respiration:Changes in pulmonary vascular resistance.

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, Severe.

Result:

Effects on Newborn: Apgar score (human only).

Effects on Newborn: Other neonatal measures or effects.

Effects on Newborn: Drug dependency.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave.,
Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

Chronic Toxicological Effects:

Carcinogenicity/Other Information:

IARC 3: Not Classifiable as to Carcinogenicity in Humans

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

ACGIH A4 - Not Classifiable as a Human Carcinogen

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	n.a.	n.a.	n.a.	n.a.
141-78-6	Acetic acid, ethyl ester {Ethyl acetate}	n.a.	n.a.	n.a.	n.a.
64742-47-8	Hydrotreated light distillate (petroleum, mineral spirits)	n.a.	n.a.	A4	n.a.
108-88-3	Toluene {Benzene, Methyl-; Toluol}	n.a.	3	A4	n.a.

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021
Supersedes Revision: 02/08/2021

67-64-1	Acetone {2-Propanone}	n.a.	n.a.	A4	n.a.
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	n.a.	3	A3	n.a.
64741-85-1	Raffinates (petroleum), sorption process	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a whole. Information below will be for individual ingredients.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Paint Related Material
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1263 **Packing Group:** II



Additional Transport Information: The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes NA	Yes
141-78-6	Acetic acid, ethyl ester {Ethyl acetate}	No	Yes NA	No
64742-47-8	Hydrotreated light distillate (petroleum, mineral spirits)	No	No	No
108-88-3	Toluene {Benzene, Methyl-; Toluol}	No	Yes NA	Yes
67-64-1	Acetone {2-Propanone}	No	Yes NA	No
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	No	No	Yes-Cat. N230
64741-85-1	Raffinates (petroleum), sorption process	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	CAA HAP,ODC: HAP: VHAP TSCA: Inventory CA PROP.65: Yes: RDTox.
141-78-6	Acetic acid, ethyl ester {Ethyl acetate}	TSCA: Inventory
64742-47-8	Hydrotreated light distillate (petroleum, mineral spirits)	TSCA: Inventory
108-88-3	Toluene {Benzene, Methyl-; Toluol}	CAA HAP,ODC: HAP: VHAP CWA NPDES TSCA: Inventory, 8A CAIR CA PROP.65: Yes: RDTox(F)

SAFETY DATA SHEET

Klean Strip Lacquer Thinner

Revision: 02/12/2021

Supersedes Revision: 02/08/2021

67-64-1	Acetone {2-Propanone}	TSCA: Inventory
111-76-2	Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}	CAA HAP,ODC: Yes - Cat. TSCA: Inventory
64741-85-1	Raffinates (petroleum), sorption process	TSCA: Inventory

Regulatory Information: This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

16. OTHER INFORMATION

Revision Date: 02/12/2021 **Previous revision:** 02/08/2021
Preparer Name: W.M. Barr EHS Dept (901)775-0100

Additional Information About This Product: No data available.

This Product:

Company Policy or Disclaimer: The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.