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SAFETY DATA SHEET
Klean-Strip Boiled Linseed Oil

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Klean-Strip Boiled Linseed Oil
Reference #: 1660C
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: Wood finish and natural protectant
Synonyms: GLO45, QLO45, CLO45
Additional 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.

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A

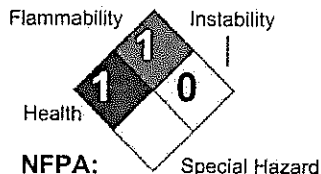


GHS Signal Word: Warning
GHS Hazard Phrases: H315: Causes skin irritation.
H319: Causes serious eye irritation.
GHS Precaution Phrases: P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362+364: Take off contaminated clothing and wash it before reuse.
GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment see label.
P332+313: If skin irritation occurs, get medical advice/attention.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.
GHS Storage and Disposal Phrases: No phrases apply.

Hazard Rating System:

HEALTH	1
FLAMMABILITY	1
REACTIVITY	
PPE	C

HMIS:



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Potential Health Effects
(Acute and Chronic):

INHALATION ACUTE EXPOSURE EFFECTS:

May cause irritation of respiratory tract, and cough.

SKIN CONTACT ACUTE EXPOSURE EFFECTS:

None known.

EYE CONTACT ACUTE EXPOSURE EFFECTS:

May cause irritation.

INGESTION ACUTE EXPOSURE EFFECTS:

Inedible -- not to be taken internally. May cause nausea, vomiting, and diarrhea.

CHRONIC EXPOSURE EFFECTS:

None known.

Medical Conditions Generally None known.

Aggravated By Exposure:

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
68553-15-1	Linseed oil, cobalt manganese salt {Linseed oil, manganese and cobalt driers}	100.0 %	NA

4. FIRST AID MEASURES

Emergency and First Aid
Procedures:

INHALATION:

If user experiences breathing difficulty, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SKIN CONTACT:

wash with soap and water.

EYE CONTACT:

Flush eye with water for at least 15 minutes. Get immediate medical attention.

INGESTION:

Call your poison control center, hospital emergency room, or physician immediately for instructions.

Signs and Symptoms Of
Exposure:

See Potential Health Effects.

5. FIRE FIGHTING MEASURES

Flash Pt: IIIB

Explosive Limits: LEL: No data.

UEL: No data.

Autoignition Pt: > 651.00 F

Suitable Extinguishing Media: Use carbon dioxide, dry powder, or foam.

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: RISK OF FIRE FROM SPONTANEOUS COMBUSTION EXISTS WITH THIS PRODUCT.

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Flammability Classification:

Oily rags, waste, and other oily materials can cause spontaneous combustion fires if not handled properly. Immediately after use, and before disposal or storage, you MUST (1) Spread out all oily materials outside to dry by flattening them out to their full size in an airy spot for 24 hours at temperatures above 40 degrees F, or (2) Wash them thoroughly with water and detergent and rinse. Repeat until you have removed all oil from all clothes, tools, rags, paper, clothing, mops, and any other materials contacted during use or as a result of an accidental spill. Make certain all wash and rinse water is disposed of properly.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

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.

Small Spills: take up liquid 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.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

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.

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 #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68553-15-1	Linseed oil, cobalt manganese salt {Linseed oil, manganese and cobalt driers}	No data.	No data.	No data.

Respiratory Equipment (Specify Type):

For occasional consumer use - Use with adequate ventilation to prevent a build-up of vapors in confined areas. Open windows or position fans to provide cross ventilation. If a mild to strong odor is noticeable, ventilation is not adequate.

For OSHA controlled workplace and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLVs.

For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirators. A dust mask does not provide protection against vapors.

Eye Protection:

Safety glasses, chemical goggles, or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

Protective Gloves:

Wear impermeable gloves. Gloves contaminated with product should be discarded. Follow disposal procedures as described in Section 5 and Section 7.

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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 buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain 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 and move to fresh air.
Work/Hygienic/Maintenance Practices:	A source of clean water should be available in the work area for flushing of eyes and skin. Clothing that becomes soiled with product should be removed as soon as possible and laundered separately. Follow procedures outlined in Section 7, Handling and Storage. Wash hands thoroughly after use and before eating, drinking, or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	☐ Gas ☒ Liquid ☐ Solid
Appearance and Odor:	Clear Amber
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	> 651.00 F
Flash Pt:	210.00 F
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	0.93 at 77.0 F
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	No data.
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Stability:	Unstable ☐ Stable ☒
Conditions To Avoid - Instability:	No data available.
Incompatibility - Materials To Avoid:	Incompatible with strong oxidizing agents.
Hazardous Decomposition Or Byproducts:	Decomposition may produce carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur ☐ Will not occur ☒
Conditions To Avoid - Hazardous Reactions:	No data available.

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11. TOXICOLOGICAL INFORMATION

Toxicological Information: Refer to section 2 for acute and chronic effects.
CAS# 68553-15-1:
Standard Draize Test, Skin, Human, 300.0 MG, 3 D, Moderate.
Result:
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Ear: Changes in cochlear structure or function.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
- Cutaneous Toxicity, Proceedings of the 3rd Conference, 1976, D, V.A., and P. L., New York, Academic Press, Inc., London United Kingdom, Vol/p/yr: -, 127, 1977

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68553-15-1	Linseed oil, cobalt manganese salt {Linseed oil, manganese and cobalt driers}	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated by 49 CFR
DOT Hazard Class:
UN/NA Number:

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)
68553-15-1	Linseed oil, cobalt manganese salt {Linseed oil, manganese and cobalt driers}	No	No	Yes-Cat. N096,

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard
'Hazard Categories' defined ☐ Yes ☒ No Chronic (delayed) Health Hazard
for SARA Title III Sections ☐ Yes ☒ No Fire Hazard
311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard
☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68553-15-1	Linseed oil, cobalt manganese salt {Linseed oil, manganese and cobalt driers}	CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

16. OTHER INFORMATION

Revision Date: 04/16/2015
Preparer Name: W.M. Barr EHS Dept (901)775-0100

Additional Information About 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

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